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FACTS ON FILE

1979

Supplement to CERP Copy #72

COMMONWEALTH OF MASSACHUSETTS
COMPREHENSIVE EMERGENCY RESPONSE PLAN
APPENDIX 3
RADIOLOGICAL EMERGENCY RESPONSE PLAN
FOR
FIXED SITE NUCLEAR FACILITIES

Section C:	Area Plan for Pilgrim I Local Plans for Pilgrim I
Section D:	Area Plan for Yankee Rowe Local Plans for Yankee Rowe
Section E:	Area Plan for Vermont Yankee Local Plans for Vermont Yankee

SECTION C-1 AREA OPERATIONS - PILGRIM I

A. INTRODUCTION

This Section describes the site and environs of the Pilgrim I Nuclear Power Station at Plymouth, Massachusetts, and describes and summarizes operational concepts of the plan as they will be carried out in the event of a radiation emergency at Pilgrim I.

B. APPLICABILITY

The provisions of this Section are primarily applicable to the designated evacuation and reception communities within and around the ten-mile "plume exposure" emergency planning zone which surrounds Pilgrim I, and those local, State and Federal agencies, and private organizations with assigned radiation emergency tasks for the Pilgrim I area. This Section has secondary applicability outside the ten-mile "plume exposure" emergency planning zone, but within the 50 mile "ingestion exposure" zone.

C. SCOPE

All operational concepts reflected in this Section are consistent with responsibilities set forth in Sections A and B (Basic Plan and Annexes) and with the local plans that make up the balance of Section C.

D. SITE DESCRIPTION, LAND USE, AND DEMOGRAPHY

The Pilgrim Nuclear Power Station (PNPS) is a single unit station rated at 1998 Mx (th) and located on the western shore of Cape Cod Bay approximately five miles from Plymouth Center. The site contains approximately 528 acres owned by the Boston Edison Company. The nearest residences outside the site boundaries are approximately 2000 feet from the reactor to the northwest and southeast. The site boundary is posted and a security fence erected around the immediate situation area.

Plymouth is in the County of Plymouth and located in southeastern Massachusetts and has a resident population of 32,500 and a peak population of @ 77,000 on any given day. It is bordered on the South by the Towns of Wareham and Bourne, on the West by the Town of Carver, and on the North by the Town of Kingston and on the East by Coastal Waters of Cape Cod Bay. There are three main highways passing through the Town. Route 3 and 3A running parrallel, in a North and South direction and Route 44, running East and West.

New population estimates for permanent and peak population within ten miles of the facility were developed by Boston Edison for the NRC in 1979, and appear as Attachment C1-1 to this Section.

E. EMERGENCY NOTIFICATION OF LOCAL OFFICIALS

In any situation requiring notification to the State and localities, the Pilgrim I Nuclear Power Station will alert Massachusetts communities via microwave and/or landline telephone to State Police in Middleboro who, in turn, will alert via the Plymouth County Radio Net and/or landline telephone local police departments. Boston Edison will also alert the Plymouth Police Department by landline telephone.

Localities will receive additional redundant alerts from Massachusetts Civil Defense in Bridgewater.

In conformity with State practice, alert messages will state that the Nuclear Power Station has a CODE RED or a CODE YELLOW. Initial local response to receipt of a CODE RED or a CODE YELLOW message should be those specified in the local plan. Determination of what further actions are required will be made by Department of Public Health officials, and transmitted to localities by Civil Defense via NAWAS.

Attachment C1-2 is a diagram of emergency notification flow.

F. EVACUATION ROUTES

The Department of Public Health may determine that, based upon power plant condition or actual measured radiation releases, evacuation of some areas is necessary.

It is possible that only a very limited area will require notification, and that this evacuation be quickly carried out in a "crosswind" fashion, to avoid an expected gaseous plume traveling with the wind. (To avoid a southbound plume traveling on a wind from the North, for instance, people in the path of the plume would be advised to move either East or West.)

In most cases, however, more time would be available to effect evacuation, and the Department of Public Health would be advising evacuation of larger areas to prevent any unnecessary increase in radiation exposure to the public. For such eventualities, each community in the "plume exposure" emergency planning zone has designated evacuation routes which, generally, are designed to move people quickly away from the power station, and to the principal reception centers in Hanover, Bridgewater, Lakeville, Bourne, Marshfield, Middleboro and Wareham for communities in the Pilgrim I area. There are also designated reception centers in Carver, Duxbury, Plympton and Kingston for residents of those towns within ten miles of Pilgrim I.

Attachment C1-3 consists of summary sheets of key information from area local plans.

Attachment C1-4 is a summary of designated evacuation routes.

G. TRAFFIC CONTROL

Traffic control will be accomplished by local police, with the support of local fire, highway and other resources, in accordance with local plans. Traffic control responsibilities will include the responsibility to control access to affected areas to prevent radiation exposure or reexposure to the public.

Pre-designated access control points appear in each local plan, and are summarized in Attachment C1-5.

State Police, assisted by State Department of Public Works personnel, are available to assist with local traffic control and law enforcement, to man key traffic control points on State highways. Attachment C1-6 summarizes State Police responsibilities and procedures.

H. EMERGENCY PUBLIC INFORMATION

Emergency public information, following initial notification to the public by local police, fire and other officials, will be available over a variety of broadcast media (See Section A-4, Public Information). Attachment C1-7 summarizes recommended frequencies and channels for receipt of such information.

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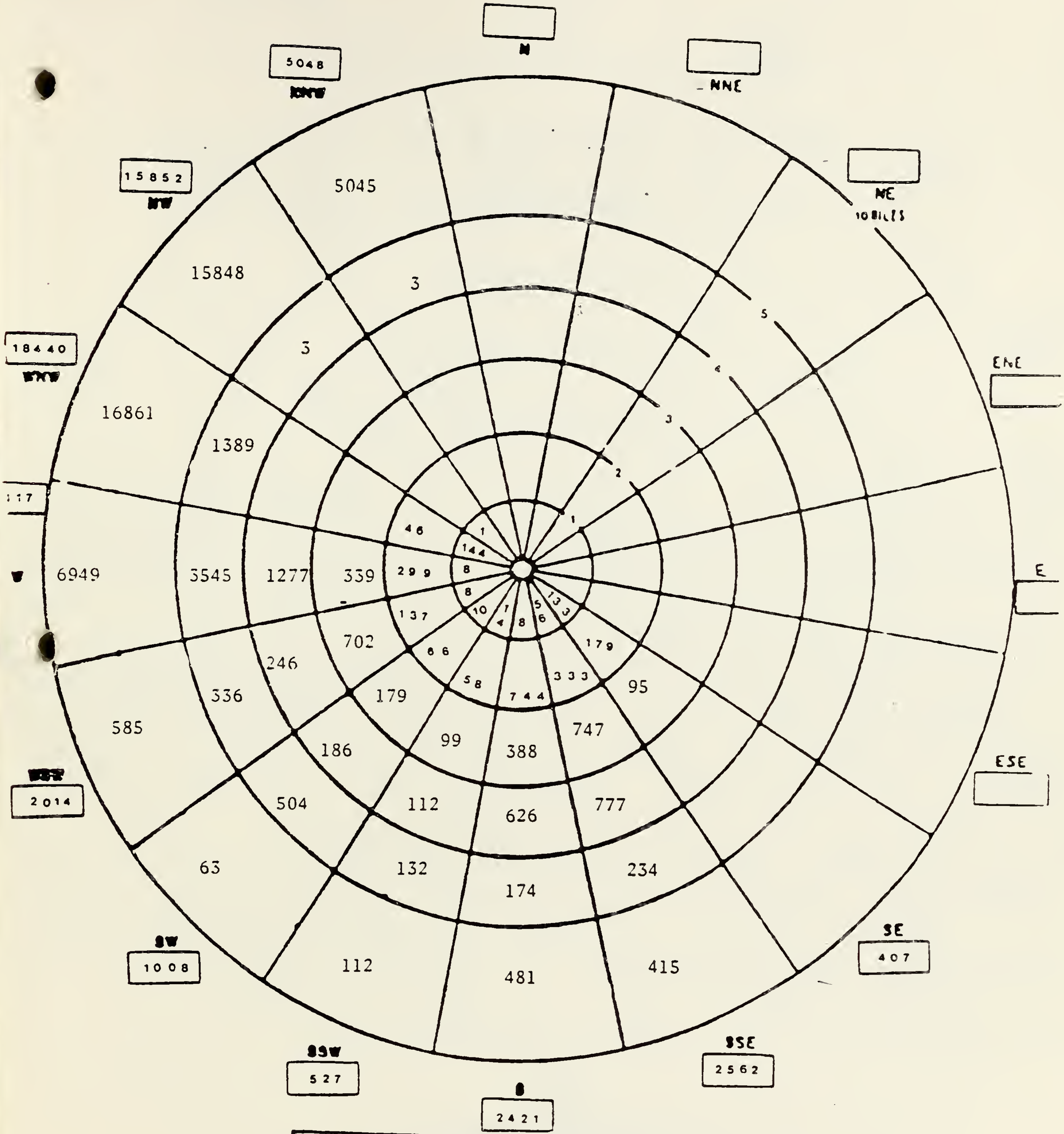


POPULATION TOTALS			
RING MILES	RING POPULATION	TOTAL MILES	CUMULATIVE POPULATION
0-1	382	0-1	382
1-2	1862	0-2	2244
2-3	2549	0-3	4793
3-4	3224	0-4	8017
4-5	6320	0-5	14337
5-10	46359	0-10	60696

FIGURE 3

Pilgrim Power Station: 0-10 Mile Radius Permanent Population (1980)

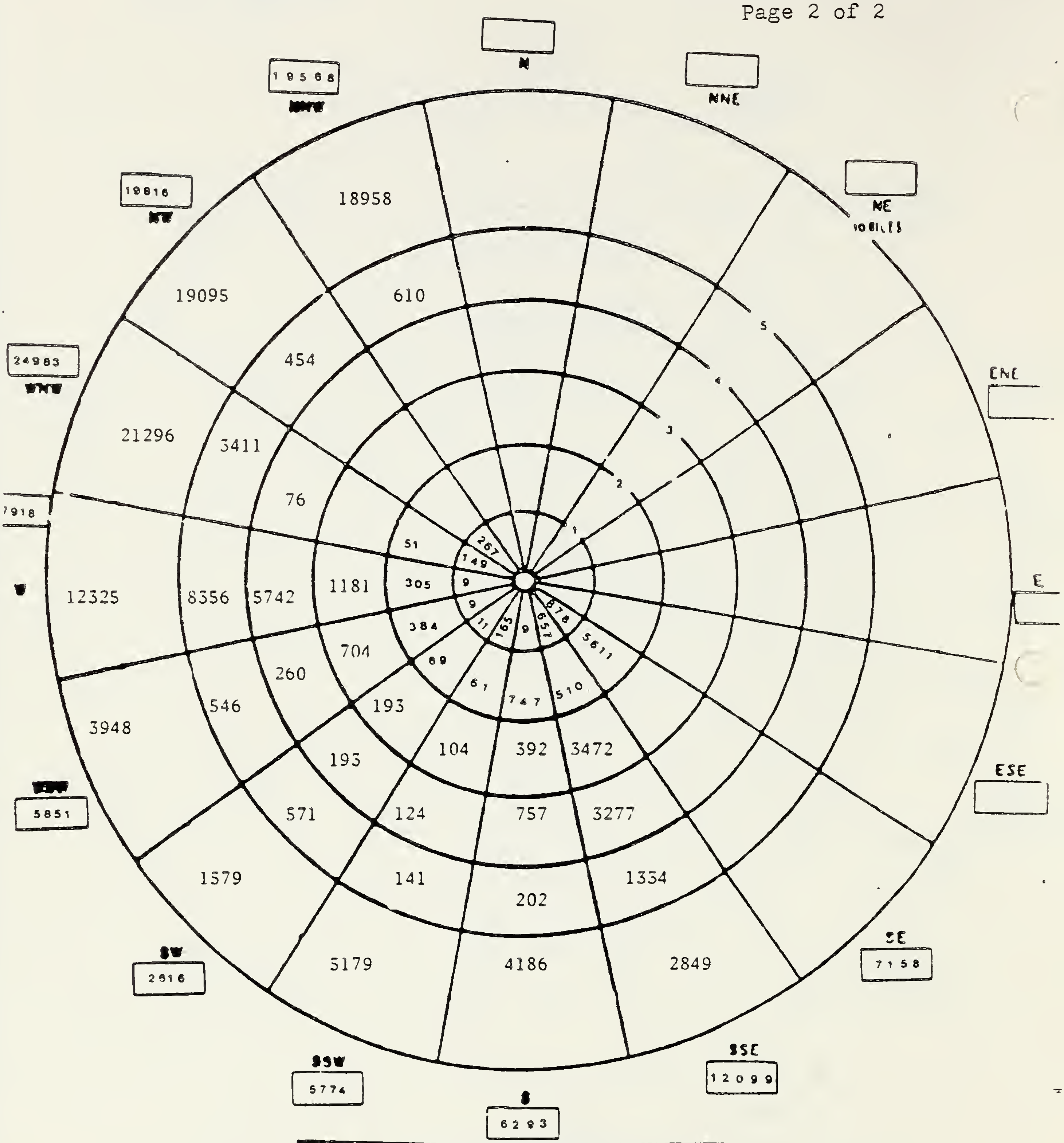
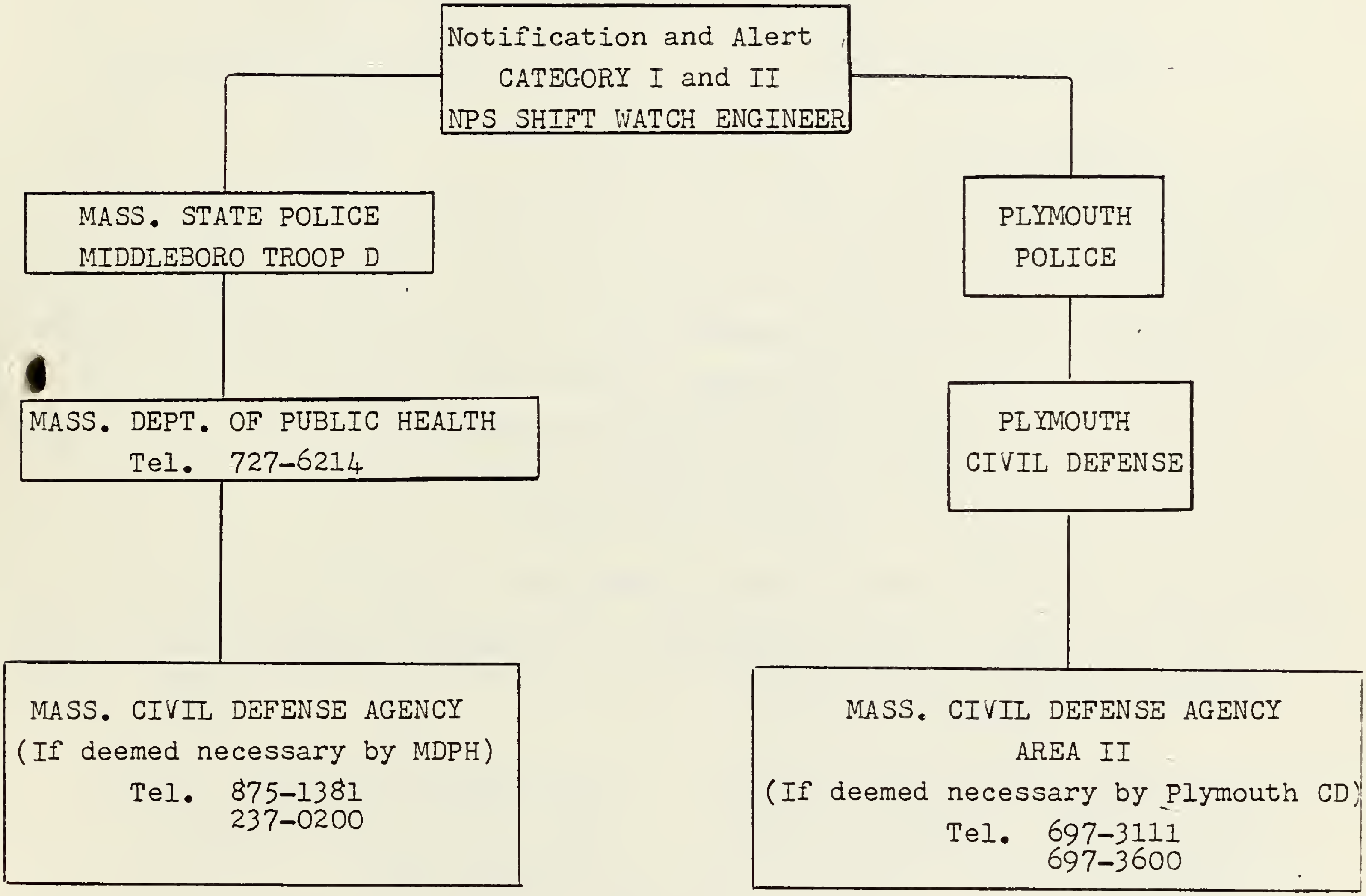

N
NNE
NE
10 MILES
ENE
E
ESE
SE
7158
SSE
12099
S
6293
SSW
5774
SW
2516
WSW
5851
W
7918
WNW
24983
NW
19816
NNW
19568
1
2
3
4
5
18958
19095
610
454
21296
3411
76
51
267
149
12325
8356
5742
1181
305
9
9
11
165
9
657
878
5611
384
704
260
546
3948
89
61
747
510
193
193
104
392
3472
571
124
757
3277
1579
141
202
1334
5179
4186
2849

FIGURE 4

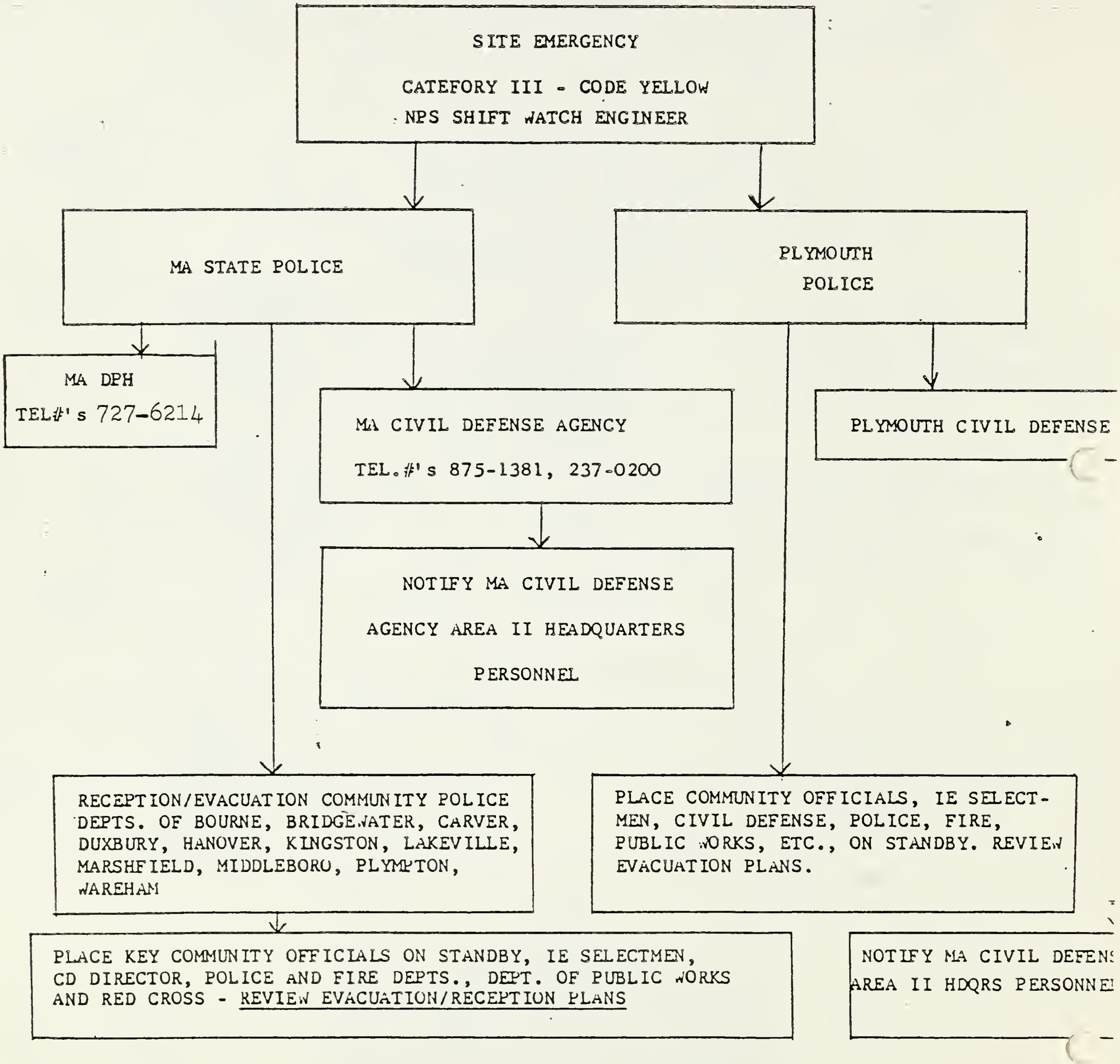
POPULATION TOTALS			
RING, MILES	RING POPULATION	TOTAL MILES	CUMULATIVE POPULATION
0-1	2154	0-1	2154
1-2	7738	0-2	9892
2-3	6715	0-3	16607
3-4	10429	0-4	27036
4-5	15625	0-5	42661
5-10	89415	0-10	132076

Pilgrim Power Station: 0-10 Mile Radius Peak Population (1980)

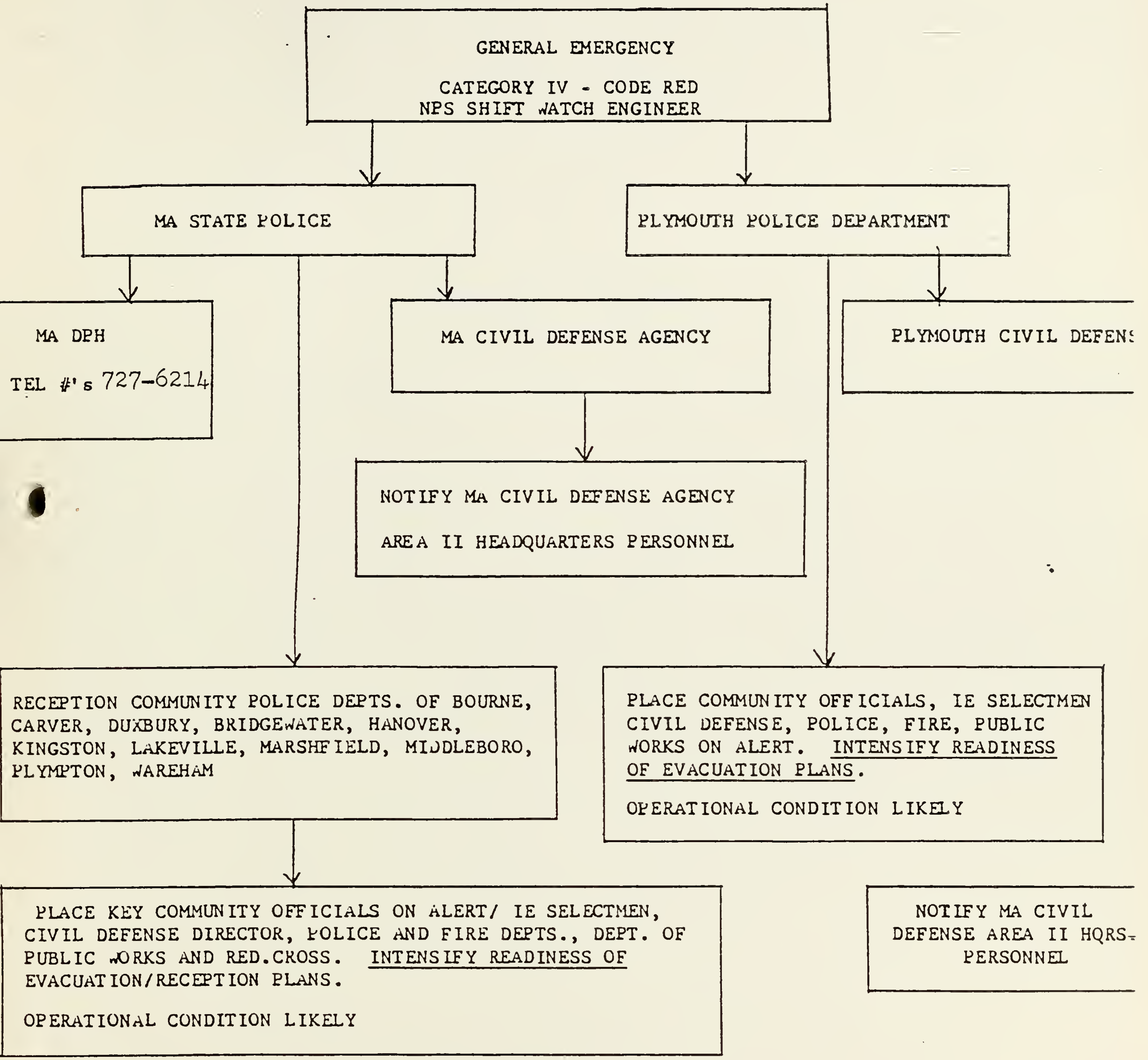
MASSACHUSETTS CIVIL DEFENSE AGENCY ALERTING PLAN
FOR A
NUCLEAR INCIDENT AT PILGRIM I STATION, PLYMOUTH, MASS.


Notification and Alert
CATEGORY I and II
NPS SHIFT WATCH ENGINEER
MASS. STATE POLICE
MIDDLEBORO TROOP D
MASS. DEPT. OF PUBLIC HEALTH
Tel. 727-6214
MASS. CIVIL DEFENSE AGENCY
(If deemed necessary by MDPH)
Tel. 875-1381
237-0200
PLYMOUTH
POLICE
PLYMOUTH
CIVIL DEFENSE
MASS. CIVIL DEFENSE AGENCY
AREA II
(If deemed necessary by Plymouth CD)
Tel. 697-3111
697-3600

MASSACHUSETTS CIVIL DEFENSE AGENCY ALERTING PLAN
FOR A
NUCLEAR INCIDENT AT PILGRIM I STATION, PLYMOUTH, MASS.


SITE EMERGENCY
CATEFORY III - CODE YELLOW
NPS SHIFT WATCH ENGINEER
MA STATE POLICE
PLYMOUTH POLICE
MA DPH
TEL#'s 727-6214
MA CIVIL DEFENSE AGENCY
TEL.#'s 875-1381, 237-0200
PLYMOUTH CIVIL DEFENSE
NOTIFY MA CIVIL DEFENSE AGENCY AREA II HEADQUARTERS PERSONNEL
RECEPTION/EVACUATION COMMUNITY POLICE DEPTS. OF BOURNE, BRIDGEWATER, CARVER, DUXBURY, HANOVER, KINGSTON, LAKEVILLE, MARSHFIELD, MIDDLEBORO, PLYMPTON, WAREHAM
PLACE COMMUNITY OFFICIALS, IE SELECTMEN, CIVIL DEFENSE, POLICE, FIRE, PUBLIC WORKS, ETC., ON STANDBY. REVIEW EVACUATION PLANS.
PLACE KEY COMMUNITY OFFICIALS ON STANDBY, IE SELECTMEN, CD DIRECTOR, POLICE AND FIRE DEPTS., DEPT. OF PUBLIC WORKS AND RED CROSS - REVIEW EVACUATION/RECEPTION PLANS
NOTIFY MA CIVIL DEFEN
AREA II HDQRS PERSONNE

MASSACHUSETTS CIVIL DEFENSE AGENCY ALERTING PLAN
FOR A
NUCLEAR INCIDENT AT PILGRIM I STATION, PLYMOUTH, MASS.



GENERAL EMERGENCY

CATEGORY IV - CODE RED
NPS SHIFT WATCH ENGINEER

MA STATE POLICE

PLYMOUTH POLICE DEPARTMENT

MA DPH

TEL #'s 727-6214

MA CIVIL DEFENSE AGENCY

PLYMOUTH CIVIL DEFENS

NOTIFY MA CIVIL DEFENSE AGENCY

AREA II HEADQUARTERS PERSONNEL

RECEPTION COMMUNITY POLICE DEPTS. OF BOURNE, CARVER, DUXBURY, BRIDGEWATER, HANOVER, KINGSTON, LAKEVILLE, MARSHFIELD, MIDDLEBORO, PLYMPTON, WAREHAM

PLACE COMMUNITY OFFICIALS, IE SELECTMEN CIVIL DEFENSE, POLICE, FIRE, PUBLIC WORKS ON ALERT. INTENSIFY READINESS OF EVACUATION PLANS.

OPERATIONAL CONDITION LIKELY

PLACE KEY COMMUNITY OFFICIALS ON ALERT/ IE SELECTMEN, CIVIL DEFENSE DIRECTOR, POLICE AND FIRE DEPTS., DEPT. OF PUBLIC WORKS AND RED.CROSS. INTENSIFY READINESS OF EVACUATION/RECEPTION PLANS.

OPERATIONAL CONDITION LIKELY

NOTIFY MA CIVIL
DEFENSE AREA II HQRS-
PERSONNEL

LOCAL PLANS SUMMARIES
PILGRIM I AREA

COMMUNITY Bourne POPULATION 15,000

MAJOR MISSION Reception

SECTORS INVOLVED J, H, & G

EVACUATION/RECEPTION PLAN

Town of Bourne will receive evacuees from Plymouth (Sector G 0-5 miles).

Town of Bourne will evacuate residents within 10 miles of Pilgrim I in Sectors J & H, if necessary.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Community Center on Main Street

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY
Route 3 and Route 3A to Route 6(W)

DESGINATED PUBLIC SHELTER CAPABILITY 7,185

MUTUAL AID PUBLIC SHELTER CAPABILITY n/a

COMMUNITY Carver POPULATION 6,000 (2,000 affected)

MAJOR MISSION Evacuation/Reception

SECTORS INVOLVED L, M, & N

EVACUATION/RECEPTION PLAN

Town of Carver will evacuate residents within the 10-mile radius of Pilgrim I to a reception area within the Town's limits.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Governor John Carver School

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Route 44(W) to Route 58(N)

DESGINATED PUBLIC SHELTER CAPABILITY 1,700

MUTUAL AID PUBLIC SHELTER CAPABILITY n/a

COMMUNITY Duxbury POPULATION 12,000 (10,000 affected)

MAJOR MISSION Evacuation/Reception

SECTORS INVOLVED P, Q, & R

EVACUATION/RECEPTION PLAN

Town of Duxbury will evacuate residents within 10 miles of Pilgrim I to the Town of Marshfield, except for small number of residents which will relocate within town's limits.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Furnace Brook School & Grace Ryder School in Marshfield
Chandler Street School in Duxbury

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Local roads to Chandler Street School
Route 3A(N) to Marshfield

DESGINATED PUBLIC SHELTER CAPABILITY 500

MUTUAL AID PUBLIC SHELTER CAPABILITY (see Marshfield summary)

COMMUNITY Hanover POPULATION 12,000

MAJOR MISSION Reception

SECTORS INVOLVED P & N

EVACUATION/RECEPTION PLAN

Town of Hanover will receive evacuees from the Town of Plymouth (Sectors P & N).

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Hanover Mall

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Route 3(N) to Route 53(S)

DESGINATED PUBLIC SHELTER CAPABILITY 5,000

MUTUAL AID PUBLIC SHELTER CAPABILITY 47,635

Abington	3,014	Randolph	5,135
Braintree	6,050	Rockland	3,856
Hingham	2,865	Quincy	14,600
Norwell	3,625	Weymouth	8,930

COMMUNITY Kingston POPULATION 6,700 (4,000 affected)

MAJOR MISSION Evacuation/Reception

SECTORS INVOLVED N, P, & Q

EVACUATION/RECEPTION PLAN

Town of Kingston will evacuate residents within 10 miles of Pilgrim I to reception centers within the town's limits.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Silver Lake Regional High School

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Local roads

DESGINATED PUBLIC SHELTER CAPABILITY 2,500

MUTUAL AID PUBLIC SHELTER CAPABILITY 3,200 (Town of Pembroke)

COMMUNITY Lakeville POPULATION 5,300

MAJOR MISSION Reception

SECTORS INVOLVED K & J

EVACUATION/RECEPTION PLAN

Town of Lakeville will receive evacuees from the Town of Plymouth (Sectors K & J).

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Assawompsett School

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Local roads to Route 58 to Route 28(N) to Route 18(S)

DESGINATED PUBLIC SHELTER CAPABILITY 5,000

MUTUAL AID PUBLIC SHELTER CAPABILITY 7,112 (City of Taunton)

COMMUNITY Marshfield POPULATION 24,000 (2,500 affected)

MAJOR MISSION Evacuation/Reception

SECTORS INVOLVED Q & R in Marshfield; P, Q, & R in Duxbury; and
Q & R in Plymouth

EVACUATION/RECEPTION PLAN

Town of Marshfield will evacuate residents within 10 miles of Pilgrim I to a reception center within town limits.

Town of Marshfield will receive evacuees from the Town of Duxbury (Sectors P, Q, & R) and from the Town of Plymouth (Sectors Q & R — Saquish & Clark's Islands).

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Marshfield residents: Ames Way School
Duxbury evacuees: Furnace Brook School & Grace Ryder School
Plymouth evacuees: Furnace Brook School

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Marshfield residents: local raods
Duxbury evacuees: local roads to Route 3A(N)
Plymouth evacuees: local roads

DESGINATED PUBLIC SHELTER CAPABILITY 9,500

MUTUAL AID PUBLIC SHELTER CAPABILITY 9,022

Cohasset	1,622	Pembroke	3,200
Scituate	4,200		

COMMUNITY Middleborough POPULATION 15,000

MAJOR MISSION Reception

SECTORS INVOLVED H (0-5 Mile Ring)

EVACUATION/RECEPTION PLAN

Town of Middleborough will receive evacuees from the Town of Plymouth (Sector H — 0-5 Mile Ring).

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Middleboro Town Hall

Backup: Middleborough Armory

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Rtes 3 or 3A (S) to Rte 6 (W) to Rte 25(N) to Rte 105

DESGINATED PUBLIC SHELTER CAPABILITY 6,700

MUTUAL AID PUBLIC SHELTER CAPABILITY n/a

COMMUNITY Plymouth POPULATION 29,000

MAJOR MISSION Evacuation

SECTORS INVOLVED R, P, N, M, L, K, J, H, & G

EVACUATION/RECEPTION PLAN

Town of Plymouth will evacuate residents as follows: Sector R to Marshfield; Sectors P & N to Hanover; Sectors M & L to Bridgewater; Sectors K & J to Lakeville; Sector H — 0-5 miles to Middleborough; Sector H — 5-10 miles to Wareham; and Sector G to Bourne

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Furnace Brook School in Marshfield; Hanover Mall; Bridgewater State Teachers College; Assawompsett School in Lakeville; Middleborough Town Hall; Wareham Town Hall; and Bourne Community Center

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Sector R: local roads; Sectors P&N: Rte 3 (N) to Rte 53 (S)
Sectors M&L East of Long Pond Rd:Rte 3(N) to Rte 106(W) to RTE 104(W)
Sectors M&L West of Long Pond Rd: Local Roads (W) to Rte 58 (N) to Rte 106(W) to Rte 104
Sectors K&J: Local Roads to Rte 58 to Rte 28(N) to Rte 18 (S)
Sector H(0-5 mi.): Rtes 3 or 3A(S) to Rte 6(W) to Rte 25 (N) to Rte 10
Sector H (5-10 Mi): Rtes 3 or 3A(S) to Rte 6(W)

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY 83,000

COMMUNITY Plympton POPULATION 1,800 (500 affected)

MAJOR MISSION Evacuation/Reception

SECTORS INVOLVED N

EVACUATION/RECEPTION PLAN

Town of Plympton will evacuate residents within 10 miles of Pilgrim I to reception areas within town limits.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Plympton Town House
Dennett Elementary School

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Local roads

DESGINATED PUBLIC SHELTER CAPABILITY 375

MUTUAL AID PUBLIC SHELTER CAPABILITY n/a

COMMUNITY Wareham POPULATION 15,000

MAJOR MISSION Evacuation/Reception

SECTORS INVOLVED K & H(0-5 Mile Ring)

EVACUATION/RECEPTION PLAN

Town of Wareham will evacuate residents within 10 miles of Pilgrim I to a reception center within town limits.

Town of Wareham will receive evacuees from the Town of Plymouth (Sector H — 0-5 Mile Ring).

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Wareham Town Hall/High School Complex

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Route 3(S) to Route 3A(S) to Route 6(W)

DESGINATED PUBLIC SHELTER CAPABILITY 3,000

MUTUAL AID PUBLIC SHELTER CAPABILITY n/a

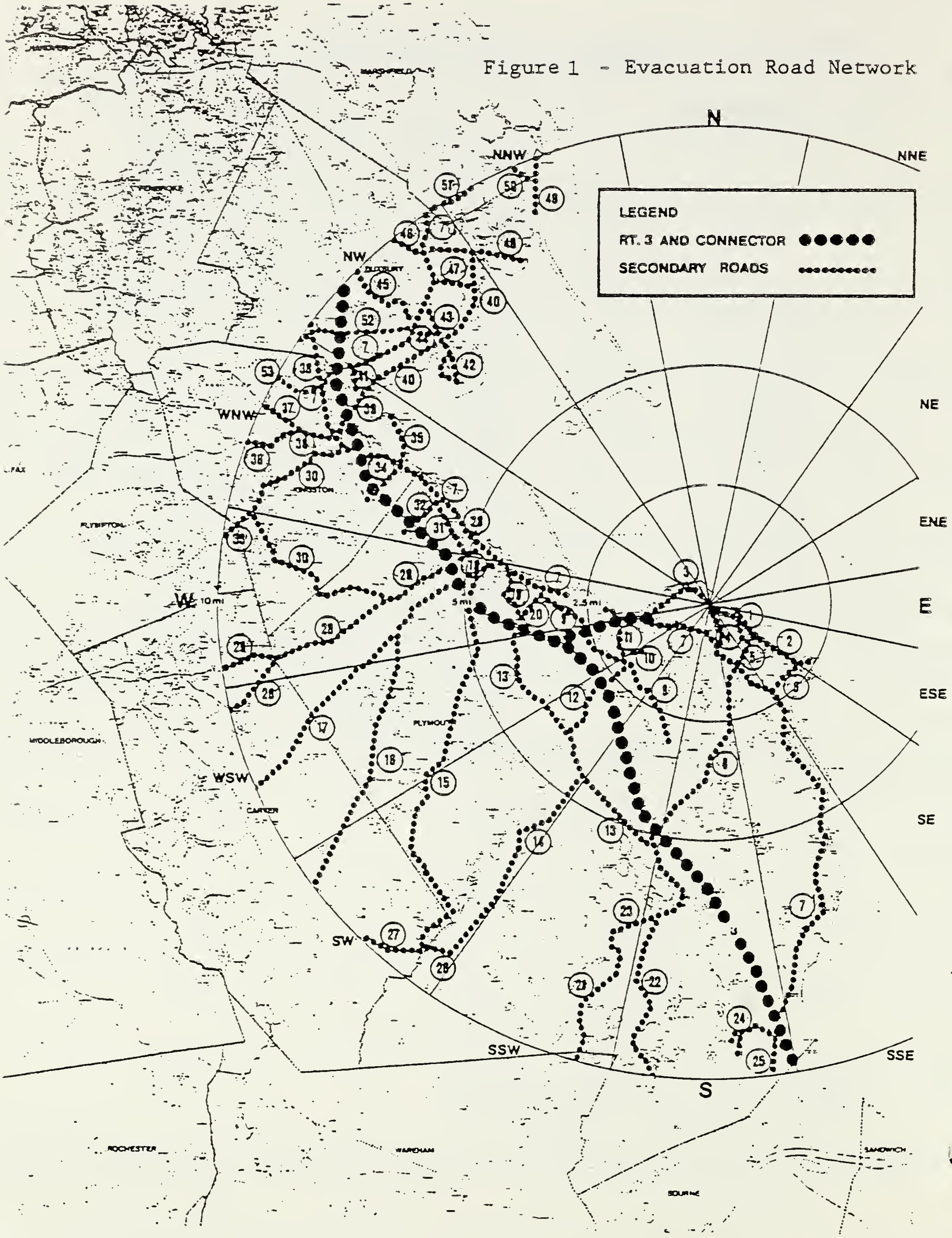
EVACUATIONS ROUTES FOR INCIDENT AT PILGRIM I

Town/City	Evacuation Route(s)
Plymouth	Sector R: local roads to Duxbury
Plymouth	Sector P: Rte. 3(N) to Rte. 53 to Hanover Mall
Plymouth	Sector N: Rte 3(N) to Rte. 53 to to Hanover Mall
Plymouth	Sectors M&L East of Long Pond Road: Rte 3(N) to Rte 106 (W) to Rte 104 (W)
Plymouth	Sectors M&L West of Long Pond Road: Local Roads (W) to Rte 58 (N) to Rte 106 (W) to Rte 104
Plymouth	Sector K: Rte. 58(N) to Rte. 28(N) to Rte. 18(S) to Assawompsett School, Main Street in Lakeville
Plymouth	Sector J: Rte 58(N) to Rte. 28(N) to Rte. 18(S) to Assawompsett School on Main Street in Lakeville
Plymouth	Sector H (5 Mile Ring): Rtes 3 or 3A (S) to Rte 6 (W)
Plymouth	Sector H (5 to 10 Mile Ring): Rte. 6(W) to Wareham Town Hall
Plymouth	Sector G: Rte. 6(W) to Community Center on Main Street in Bourne
Carver	Sector N: Rte. 44(W) to Center Street to Rte. 58 to Town Hall
Carver	Sector M: South Meadow Road West to Rte. 58 to Town Hall
Carver	Sector L: Federal Furnace Road North to South Meadown Road to Rte. 58 to Town Hall
Kingston	Primary: West on Main Street to Pembroke Street(Rte. 27) to Silver Lake Regional High School(SLRHS)

EVACUATIONS ROUTES FOR INCIDENT AT PILGRIM I

Town/City	Evacuation Route(s)
Kingston	Alternate: West on Main Street to Wapping Road(Rte. 106) to West Street to Lake Street to SLRHS
Kingston	Alternate: West on Main Street to Pembroke Street(Rte. 27) to Grove Street to Lake Street to SLRHS
Plympton	Northwest from Brooks Street and Mayflower Road to Rte. 58 to Town Hall
Duxbury	North on Rte. 3A to Marshfield
Duxbury	North on Lincoln Street to Marshfield
Duxbury	Special Catagory: to Chandler Street School via Tubey Garden Street and Elm Street to Summer Street
Marshfield	Residents: Rte. 139 to Ames Way School
Marshfield	Residents: Rte. 139 to Webster Street to Martinson School
Marshfield	Influx: enter via Rte. 3A to Ocean Street to Main Street to Grace Ryder School

Figure 1 - Evacuation Road Network


LEGEND
RT. 3 AND CONNECTOR ●●●●●
SECONDARY ROADS ••••••••••
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2.5 mi
MARSHFIELD
PEMBROKE
DUXBURY
KINGSTON
PLYMPTON
PLYMOUTH
MIDDLEBOROUGH
CARVER
ROCHESTER
WAREHAM
BOURNE
SANDWICH

KEY TO FIGURE 1

IDENTIFICATION OF ROADS

	Road	Estd. Capacity (Hourly ADT)
1.	Priscilla Rd. (Plymouth)	1200
2.	Taylor Ave. (Plymouth)	1105
3.	Rocky Hill Rd. (Plymouth)	1350-1685
4.	Pilgrim Access Rd. (Plymouth)	
5.	White Horse Rd. (Plymouth)	1050-1585
6.	Manomet Point Rd. (Plymouth)	1585
7.	Route 3A (Plymouth, Kingston, Duxbury)	1000-1830
8.	Beaver Dam Rd. (Plymouth)	1100-1485
9.	Sandwich Rd. (Plymouth)	1240
10.	Dolten Rd. (Plymouth)	1160
11.	Clifford Rd. (Plymouth)	1015
12.	Jordan Rd. (Plymouth)	1030
13.	Long Pond Rd. (Plymouth)	1240
14.	Alden Rd. - Upper College Pond Rd. (Plymouth)	1160
15.	South Pond Rd. - Bare Hill Rd. (Plymouth)	1160
16.	Federal Furnace Rd. (Plymouth) - Tremont St. (Carver)	1240
17.	South Meadow Rd. (Plymouth) - South Meadow St. (Carver)	1160-1240
18.	Summer St. (Plymouth)	960
19.	South St. (Plymouth)	1260
20.	Obery St. (Plymouth)	1260
21.	Wareham Rd. (Plymouth)	1160
22.	Bourne Rd. (Plymouth)	1160
23.	Halfway Pond Rd. (Plymouth)	1240
24.	Upland Rd. - Carter's Bridge Rd. - Roxy Calhoon Rd. (Plymouth)	1160
25.	Herring Pond Rd. (Plymouth)	1240
26.	Fearing Pond Rd. (Plymouth)	1160
27.	Cranberry Rd. (Carver)	1160
28.	Route 44 (Plymouth, Carver)	1200-1340
29.	Plymouth Rd. (Carver)	1160
30.	Route 80 (Plymouth, Kingston)	1100-1240
31.	Standish Ave. (Plymouth)	730
32.	Cherry St. (Plymouth)	1000
33.	Elm St. (Kingston)	1240
34.	Smith's Ln. (Kingston)	1125
35.	Road to Rocky Nook Point (Kingston)	1160
36.	Route 106 (Kingston)	1175-1240
37.	Route 27 (Kingston)	1200
38.	Route 53 (Kingston, Duxbury)	1520
39.	Landing Rd. (Kingston)	1160
40.	Bay Rd. (Kingston)	1200
41.	Loring Ln. (Duxbury)	1160
42.	Standish St. (Duxbury)	1160
43.	Depot St. (Duxbury)	1160
44.	Chestnut St. (Duxbury)	1125
45.	Mayflower St. (Duxbury)	1160
46.	Route 14 (Duxbury)	1200
47.	Harrison St. (Duxbury)	1160
48.	Powder Point Rd. (Duxbury)	1160
49.	Beach Rd. (Duxbury)	1240
50.	Carol Rd. (Duxbury)	1240
51.	Route 139 (Duxbury, Kingston)	1160-1940
52.	Tobey Garden St. (Duxbury)	1240
53.	Winthrop St. (Kingston)	1160

ACCESS CONTROL POINTS FOR INCIDENT AT PILGRIM I

Sector/Direction	Town	Location
N/W	Plymouth	Route 3 at Route 44
P/WNW	Plymouth	Route 3A at Route 44
K/SSW	Plymouth	Route 3 at Clark Road
M/WSW	Plymouth	Route 3 at Route 3A access road
K/S	Plymouth	Route 3A at PNPS access road
M/WSW	Plymouth	Route 3A at Rocky Hill Road
G/SE	Plymouth	Rocky Hill Road at White Horse Beach Road
	Kingston	Route 53 at Duxbury Line
P/WNW	Kingston	Route 3 at Route 3A (Duxbury line)
P/WNW	Kingston	Route 3A at Duxbury Line
	Kingston	Bay Road at Duxbury Line
P/WNW	Kingston	Main Street at Plymouth Line
P/WNW	Kingston	Main Street at Route 3
N/W	Kingston	Route 80 at Sacred Heart High School
N/W	Kingston	Elm Street at Plympton Line
P/WNW	Kingston	Route 106 at Plympton Line
P/WNW	Kingston	Lake Street at West Street
P/WNW	Kingston	Route 27 at Pembroke Line
P/WNW	Kingston	Route 27 at Station Street

ACCESS CONTROL POINTS FOR INCIDENT AT PILGRIM I

Sector/Direction	Town	Location
P/WNW	Duxbury	Route 3 at Route 3A
Q/NW	Duxbury	Route 3 at Route 14
Q/NW	Duxbury	Route 3A at Marshfield Line
Q/NW	Duxbury	Route 53 at Pembroke Line
	Duxbury	Route 53 at Bongi's Turkey Farm
Q/NW	Duxbury	Route 14 at Lincoln Street
Q/NW	Marshfield	Route 3A at Duxbury Line
Q/NW	Marshfield	Routes 3A & 139 at Careswell Street
	Marshfield	Route 3 at Route 3A
Q/NW	Hanover	Route 53 at Route 139
Q/NW	Hanover	Route 53S at Route 3
Q/NW	Hanover	Route 3S at Route 228
J/S	Bourne	Sagamore Rotary 3N-3AN at Route 6
L/SW	Wareham	Route 58N at Route 25
N/W	Middleborough	Rotary 44E at Routes 18 & 28
	Bridgewater	Route 104E at Route 18
	East Bridgewater	Route 106E at Route 18
	Whitman	Route 27E at Route 18
	Abington	Route 58E at Route 123
	Rockland	Route 139E at Route 123
	Scituate	Route 3A S at Route 123

MASSACHUSETTS STATE POLICE
TROOP "D" HEADQUARTERS
MIDDLEBORO, MASSACHUSETTS

ACTUAL IMPLEMENTATION OF HIGHWAY TRAFFIC CONTROL
FOR
NUCLEAR INCIDENT AT PILGRIM I STATION, PLYMOUTH, MASS.

When the Governor of the Commonwealth of Massachusetts calls for evacuation of the all or any portion of the ten mile area surrounding the Pilgrim I Nuclear Power Station in Plymouth, the plan outlined herein will be implemented by the Massachusetts State Police, assisted by the Massachusetts Department of Public Works and the police departments of cities and towns involved.

It is expected that police in the Town of Plymouth and designated reception communities will keep, on an appropriately controlled basis, routes to the designated major reception areas clear and open in accordance with local plans.

Notification

Upon notification that an evacuation has been ordered, the Massachusetts State Police in Middleborough will notify desginated State and local authorities in accordance with the diagram which appears as an Attachment to this plan.

Responsibilities and Procedures

A. Local Police Departments

All towns within the perimeter of Routes 6, 25, 18, & 123 shall divert traffic away from the Town of Plymouth at points on major routes as designated below and on secondary routes wherever possible.

Upon notification of actual implementation of this plan, departments shall assign men to the following locations until relief can be supplied by State Police and notify town officials to implement reception plans.

TOWN	LOCATION	OFFICERS NEEDED
Bourne	Sagamore Rotary, Rtes 3(N)-3A(N) at Rte 6	2
Wareham	Rte 58(N) at Rte 25	1
Middleborough	Rotary Rte 44(E) at Rtes 18 & 28	2
Bridgewater	Rte 104(E) at Rte 18	1
East Bridgewater	Rte 106(E) at Rte 18	1
Whitman	Rte 27(E) at Rte 18	1
Abington	Rte 58(E) at Rte 123	1
Rockland	Rte 139(E) at Rte 123	1
Hanover	Rte 53(N) at Rte 139; Rte 53(S) at Rte 3; Rte 3(S) at Rte 228	1 1 2
Scituate	Rte 3A(S) at Rte 123	1

B. Duty Officer, Middleboro State Police

1. Advise General Headquarters Boston, Troop Commander and Massachusetts Department of Public Works of actual implementation of plan. General Headquarters will provide manpower from throughout the State.

2. Have the dispatcher at Middleboro State Police contact all area towns, listed in Attachment 1 to this plan, over the Plymouth County Radio Network and advise them to implement their traffic control plan and community reception and evacuation plans.

3. Contact the State Police Barracks in Bourne and have two cruisers block the westbound lane of Route 6 at the Sagamore Bridge and re-route traffic to the Bourne Bridge using the by-pass on the East side of the canal.

4. Contact Plymouth Police Department by telephone and provide whatever manpower and assistance necessary for evacuation and security.

5. Dispatch one officer from Middleboro State Police to Area II Civil Defense Headquarters in Bridgewater as a coordinator.

6. Arrange by teams (1 NCO, 8 Troopers) to assist Plymouth Police.

7. Coordinate with towns on major traffic points to relieve their officers as manpower becomes available.

8. Verify by telephone that all communities have been notified using the check list (Attachment 2).

C. Massachusetts Department of Public Works

1. Assign one man to Area II Civil Defense Headquarters in Bridgewater as a coordinator.

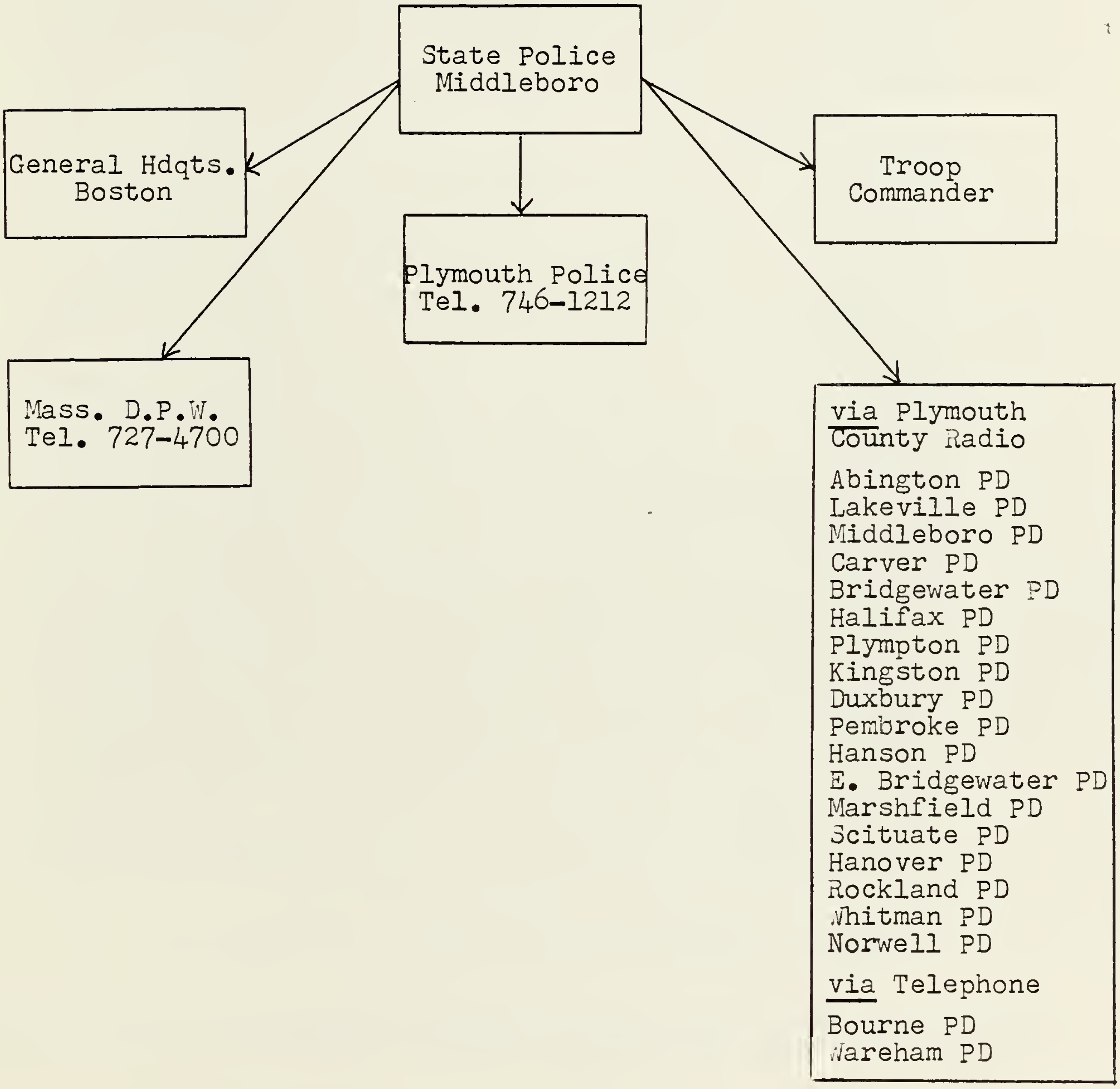
2. Erect signs and barriers at locations listed on page 2 of this plan, under local police departments' responsibilities and procedures.

Plan Review and Update

This plan will be reviewed on an annual basis.

ATTACHMENT 1

Notification Diagram


State Police Middleboro
General Hdqts. Boston
Plymouth Police Tel. 746-1212
Troop Commander
Mass. D.P.W. Tel. 727-4700
via Plymouth County Radio
Abington PD
Lakeville PD
Middleboro PD
Carver PD
Bridgewater PD
Halifax PD
Plympton PD
Kingston PD
Duxbury PD
Pembroke PD
Hanson PD
E. Bridgewater PD
Marshfield PD
Scituate PD
Hanover PD
Rockland PD
Whitman PD
Norwell PD
via Telephone
Bourne PD
Wareham PD

ATTACHMENT 2

Telephone List

Plymouth	1-746-1218	
Abington	W-878-3232	
Wareham	295-1204	
Lakeville	947-4422	
Middleborough	947-1212	
Carver	866-2000	
Bridgewater	697-6118	
Halifax	1-293-5761	
Plympton	1-585-3339	
Kingston	1-585-2122	
Duxbury	1-934-5656	
Pembroke	1-293-6366	
Hanson	1-294-8081	
East Bridgewater	W-378-7223	
Marshfield	1-834-6655	
Scituate	1-545-1212	
Hanover	1-826-2335	
Rockland	W-871-3890	
Whitman	W-447-4446	
Norwell	1-659-7979	
Bourne	1-759-4420	
Area II MCDA	679-3111	
Mass. D.P.W.	1-727-4700	

[Note: "W" denotes no "1" needed in dialing, on WATTS line.]

PLACE A (✓) CHECK MARK AFTER TELEPHONE NUMBER ONCE CONTACT IS MADE.

RADIO/TV STATIONS FOR COMMUNITIES IN PILGRIM I AREA

City/Town	Radio/TV Stations
Bourne	WPLM(1390 AM/99.1 FM) WBSM(1420 AM) WOCB(1240 AM/95 FM) WCIB(102 FM)
Bridgewater	WBET(1460 AM)
Carver	WPLM(1390 AM/99.1 FM) WATD(96 FM)
Duxbury	WPLM(1390 AM/99.1 FM) WBZ(1030 AM) Channel 4
Hanover	WBZ(1030 AM) WBET(1460 AM)
Kingston	WPLM(1390 AM/99.1 FM) WATD(96 FM) Channel 4
Lakeville	WRLM(93.3 FM) WPEP(1570 AM) WBZ(1030 AM)
Marshfield	WPLM(1390 AM/99.1 FM) WATD(96 FM)
Middleborough	WPLM(1390 AM/99.1 FM)
Plymouth	WPLM(1390 AM/99.1 FM) WATD(96 FM) WBZ(1030 AM)
Plympton	WPLM(1390 AM/99.1 FM) WATD(96 FM)

TOWN OF BOURNE

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Bourne with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Bourne is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relavant attachments on radiological emergencies.

d. Due to the Nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Barnstable County Sheriff's Office to the Bourne Fire Department (via NAWAS -- see Section VI. below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. Necessary actions to implement the reception from the Town of Plymouth will be taken as further described in the annexes. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. SITUATION

1. The Pilgrim Nuclear Power Station (PNPS) is a single unit station rated at 1998 MX (th) and located on the western shore of Cape Cod Bay approximately five miles from Plymouth Center. The site contains approximately 528 acres owned by the Boston Edison Company. The nearest residences outside the site boundaries are approximately 2000 feet from the reactor to the northwest and southeast. The site boundary is posted and a security fence erected around the immediate situation area.
2. Plymouth is in the County of Plymouth, and located in Southeastern Massachusetts. It is bordered on the South by the Towns of Wareham and Bourne, on the West by the Town of Carver, on the North by the Town of Kingston and on the East by the Coastal Waters of Cape Cod Bay. There are three (3) main highways passing through the Town. Route 3 and 3A running parallel, in a North and South direction and Route 44, running East and West.
3. The Town of Bourne, in a southwesterly segment, is approximately twelve (12) miles from the center of Town from Pilgrim One NPS, could be within the ingestion pathway following a major incident at the Pilgrim I NPS. This could result in recommendations that protective actions be taken in Bourne with respect to food stuffs.

   The Massachusetts Civil Defense Agency has designated Bourne the primary mission of processing all evacuees from Plymouth in the southwesterly segments lettered G as designated on the Pilgrim I NPS Map (Attachment 1). This will involve Radiological Monitoring and decontamination, if necessary, followed by registration, processing and sheltering of approximately 7,185 Plymouth evacuees during absolute peak seasons.

Bourne is capable of sheltering all of the evacuees within the town.

Bourne is located in southeastern Massachusetts in Barnstable County approximately sixty-one (61) miles south of Boston. It is located at the beginning of Cape Cod and is bordered by Plymouth on the North, on the Northeast by the Atlantic Ocean, on the West by Buzzards Bay, on the East by Sandwich and on the South by Falmouth. The Town is traversed by Routes 3 and 28 North and South and Route 6, East and West. The population of Bourne is approximately 15,000 permanent residents, expanding to 25,000 during the summer months.

The town is the site of the Massachusetts Maritime Academy and approximately 90% of Otis Air Force Base, including the base housing area and schools.

The Cape Cod Canal runs through the Town of Bourne and access to the Cape is only available over two bridges.

B. ASSUMPTIONS

1. The primary responsibility and capability for immediate response to a radiological emergency in Bourne lies with the emergency forces of the town. The Board of Selectmen has designated and will support

a local Civil Defense Director, and will assure that appropriate support is available to him.

2. Local emergency forces have inventoried available resources, are prepared to deal effectively with limited disaster or emergency conditions in the community, and to receive evacuees from Plymouth.

3. Bourne will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Towns within a ten-mile radius or which would require the Town of Bourne to receive evacuees. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by Bourne as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. OBJECTIVES

This concept of operations is.intended to assure that the following objectives are met.

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;
2. Disperse effective warning the the public as quickly as possible, including authoritative advice on appropriate protective action;
3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out;
4. Provide for the essential needs of citizens in the event protective action involves sheltering of evacuees; and,
5. Provide for the reception and care of persons evacuated due to a radiological emergency.

B. MODES OF EXPOSURE

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;
2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;
3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated; and,
4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. PROTECTIVE ACTION

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Reception
2. Shelter
3. Controlling Access to Affected Areas
4. Control of Foodstuffs
5. Administration of Radioprotective Drugs

D. PLANNING ZONES

For planning purposes, the area around the Pilgrim I NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Bourne lie in Sectors K, J, and H outside of the ten-mile radius, but within the ingestion pathway (neither "I" nor "O" are used as sector desingators). Less than one mile of the Northeastern section of Bourne lies within the ten-mile radius of Pilgrim I NPS, however, this area will not be considered for required evacuation.

E. EMERGENCY OPERATIONS

Emergency operations will be conducted in accordance with the Bourne Basic Operations Plan as supplemented by this Plan. The Town Hall on Perry Avenue will be utilized as the Emergency Operating Center. An alternate EOC will be available in the Main Street Fire Station.

V. ORGANIZATION AND RESPONSIBILITIES

A. STANDBY LEVEL

Upon receipt by Bourne Police of a "CODE YELLOW" message; either through National Attack Warning System, or via State Civil Defense Area II (Bridgewater) the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A -- Warning and Notification;

2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency Area II in Bridgewater.

B. ALERT LEVEL

A particular radiological emergency may or may not involve an Alert Level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert Level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A - Warning and Notification should be carried out.

C. EMERGENCY OPERATIONS LEVEL

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

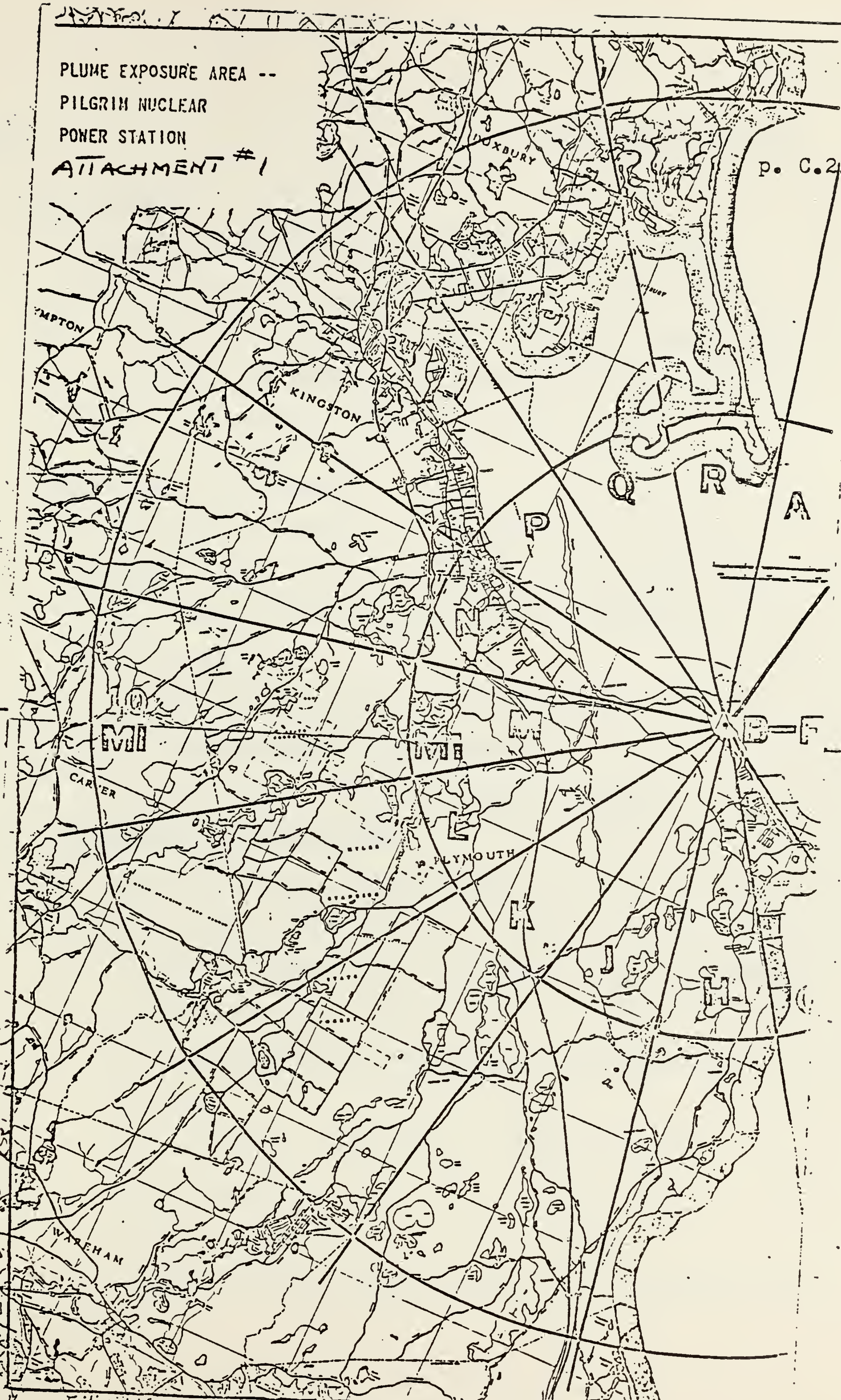
In addition to those activities covered in the attached Annexes which outline general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of Reception Centers;
3. Activation of all required emergency response units;
4. Invoking of mutual aid arrangements;
5. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

6. Assembly and provision of the intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,
7. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

PLUME EXPOSURE AREA --
PILGRIM NUCLEAR
POWER STATION

ATTACHMENT #1


DUXBURY
KINGSTON
PLYMPTON
PLYMOUTH
CARVER
WAREHAM
A
B-F
H
J
K
L
M
N
P
Q
R

I. INTRODUCTION

The warning and notification function involves three (3) phases 1) receipt of initial warning from the Barnstable County Sheriff's Office, 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and possible recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from the Barnstable County Sheriff's Office relayed from the State Police Headquarters in Boston via NAWAS.

Back-up, validation of messages will be received as follows:

1. Bourne Fire Department to State Police
2. Massachusetts Civil Defense to local Civil Defense

B. NOTIFICATION OF LOCAL OFFICIALS

1. Bourne Fire to Civil Defense Director
2. Bourne Fire to Bourne Police
3. Civil Defense Director will initiate Major Incident notification procedure as outlined below

The following agencies and officials will be notified by telephone:

Chairman, Board of Selectmen
Highway Department
School Department
Board of Health
Salvation Army
Red Cross

The official notification call list appears on an Attachment to this Annex.

3. Upon establishment of emergency operations at the Town Hall, the local Civil Defense Director of the Fire Department will validate notification, and assume responsibility for completion of notification.

C. PUBLIC NOTIFICATION

1. It is not envisioned that an audible alarm signal would be required to notify the general public to enact this plan, for reception and processing of evacuees from Plymouth.

2. Radio Stations WPLM in Plymouth, WBSM in New Bedford, WOCD in Falmouth and WOCB in Yarmouth receive public warning messages from local Civil Defense. Other radio and television stations received locally will be carrying emergency public information. This will be the primary means of informing the general public of processing/reception initiation and will also satisfy protective guidelines dissemination.

   The Cape Cod Times will carry additional written instructions governing Protective Action Guidelines.

   State Civil Defense Headquarters will issue emergency information updates over the Emergency Broadcast System (EBS) periodically for the entire area of involvement.

ANNEX A

APPENDIX 1 - ROSTER KEY OFFICIALS

TOWN OF BOURNE

Bourne Police	759-4451
Bourne Fire	759-4411
Bourne Civil Defense	759-4084
D.P.W.	759-3523
Board of Health	759-3435
Selectman	759-4486
Supt. of Schools	759-5112
Bourne Community Building	759-3272
Nurses Department	759-5588

ANNEX B RECEPTION - PROCESSING - SHELTERING

I. INTRODUCTION

The Massachusetts Department of Public Health through the Massachusetts Civil Defense Agency may direct evacuating portions or all of the ten-mile radius surrounding the Pilgrim I NPS to protect against the direct effects of a gaseous or liquid radiological release.

Evacuation action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

In the event that sector G is evacuated personnel from Plymouth will proceed to Bourne for processing, relocation and shelter assignment. Evacuees directed from Sector G will involve people only out to the three mile radius from the NPS. The remainder of this Sector is under water and will be the responsibility of the Coast Guard.

II. RECEPTION

A. GENERAL

Plymouth Evacuees will proceed South on Routes 3 and 3A to the Sagamore Rotary and West on Route 6 to the Bourne Rotary. Cars will then be diverted into three lanes abreast on Main Street which will be made one way West. The traffic will be stopped in front of the Community Building for radiological monitoring and emergency medical treatment, if necessary.

Personnel requiring decontamination will be diverted to the Maritime Academy Gymnasium.

Personnel requiring medical treatment will be attended by the medical team comprised of Bourne EMT's and Paramedics.

All evaucees will be registered and processed and given shelter assignments from an area clearly designated in the Community Building.

Personnel requiring medical attention or decontamination will be registered and processed at an area designated in the gymnasium of the Massachusetts Maritime Academy.

Bourne will shelter up to 7,185 evacuees.

II. RECEPTION

B. RESPONSIBILITIES AND PROCEDURES

Following radiological monitoring of vehicles and personnel , cars will be directed to a designated area in front of the Community Building and, weather permitting, processing teams will be established in three lanes of traffic to register, process and issue shelter assignments to evacuees who will remain in their vehicles. If inclement weather, evacuees will park their vehicles behind the Community Building and proceed to the main room in the building for processing. Evacuees not requiring sheltering will be issued instructional maps with designated routing for ongoing travel.

III. ROUTING

A. GENERAL

Access routing will be via routes 3 and 3A to the Sagamore Rotary then Westerly on Route 6 to the Bourne Rotary. Main Street in Buzzards Bay will be designated one way Westerly. Arriving vehicles will form into three lanes entering onto Main Street, will proceed to a designated area near the Community Building for processing. Following processing vehicles will be directed from the Community Building West on Main Street to their designated shelter area as indicated on the Map in Appendix I.

B. RESPONSIBILITIES AND PROCEDURES

The Bourne Police will be responsible for traffic direction and flow. The Bourne Highway Department will assist the Police with the placement of stanchions and directional signs and the roping of designated areas. The Highway Department in coordination with the Police Department will formulate required routing maps and file master copies in their department which will be available for immediate mass reproduction if this plan is implemented. Route directional signs will be prepared in advance by the Highway Department. State Department of Public Works assistance is available through the Massachusetts Civil Defense Agency if required.

IV. RADIOLOGICAL MONITORING AND DECONTAMINATION

A. GENERAL

Four two-man radiological monitoring teams will be trained and assigned for the processing procedure. As vehicles enter Main Street they will be directed into three lanes of traffic to a designated radiological monitoring area. One team will be assigned to each lane of traffic with a monitor on each side of the vehicle. The first step will entail monitoring of the vehicle followed by the evacuees leaving their vehicles for individual monitoring. Vehicles and personnel not contaminated will continue in the three lane traffic flow to the processing area. Personnel found to be contaminated will be redirected to the Massachusetts Maritime Academy gymnasium for decontamination. Upon entering, a shower will be taken fully clothed followed by clothing removal and placement of contaminated clothing in designated receptacles. A shower utilizing hot water and soap with thorough washing will them be accomplished. New clothing will be issued and after dressing personnel will receive final monitoring from the fourth radiological monitoring team. During the decontamination processing any vehicles which were found to be contaminated will be thoroughly washed down by a fire truck stationed in the parking lot of the gymnasium. Following the total decontamination process, evacuees will be directed to another area of the gymnasium for registration and processing.

B. RESPONSIBILITIES

Planning and implementation of the above procedures will be the responsibility of the Bourne Civil Defense Radiological Defense Officer. He will insure that there are sufficient dosimeters available to issue to each person tasked to support this entire operation and that there are ten (10) CD V-700 monitors in addition to those required for emergency response vehicles for utilization of the radiological monitoring teams tasked in this plan. The RDO will also identify the requirement for additional clothing following the decontamination process and effect coordination with the Massachusetts Civil Defense Agency to insure availability on a rapid basis. Additionally the RDO will insure a sufficient pool of trained radiological monitors to support this plan.

V. EMERGENCY MEDICAL PROCEDURES

A. GENERAL

An Emergency Medical Team will be stationed adjacent to the Radiological Monitoring Team on Main Street and will consist of Fire Department EMT's and Paramedics. An ambulance will also be provided by the Fire Department Emergency Medical Treatment will be rendered on the spot for minor cases and any patients requiring hospitalization will be transported to Tobey Hospital in Wareham. The back-up hospital will be Falmouth Hospital.

The Emergency Medical Team will also maintain a capability to respond to emergencies at the Bourne shelter facilities.

B. RESPONSIBILITIES

The Fire Department will provide EMT's and Paramedics as well as an ambulance.

VI. SHELTERING

A. GENERAL

Bourne will maintain the capability to house 7,185 evacuees.

The primary shelters in Bourne are: Bourne Community Building, Massachusetts Maritime Academy, Massachusetts National Guard Armory, Bourne High School, Upper Cape Regional Vocational, Peebles Elementary School, Bourne Junior High School, St. Margaret's Parish Center, Knights of Columbus Hall and St. Peter's Parish Hall, which will be utilized in that order. If school is in session during implementation of this plan, students will be dismissed in accordance with the emergency dismissal plan. Sleeping facilities will be contained in the auditorium, gymnasium and hallways as much as possible. Cots and blankets must be provided from State resources. Feeding will be accomplished utilizing the assets of the school lunch facilities in schools and the "Meals on Wheels" capability in the Community Building for feeding in that facility and dispersal of food to church halls. The open field areas adjacent to the school buildings will be utilized for parking and open parking will be utilized to insure emergency access.

Social activities will be provided to the extent possible dependent on conditions.

B. RESPONSIBILITIES

The overall responsibility for sheltering of evacuees will be assigned to the Superintendent of Schools and will be implemented by the Principal or his designee at each school being utilized. The Chief Shelter Manager will be responsible for shelter areas that are not schools.

Additional responsibility will be assigned as follows:

Bourne Board of Health will inspect and insure cleanliness in sleeping areas and sanitation facilities and application of Health Codes in the preparation and serving of meals.

The Fire Department will provide Emergency Medical Treatment and insure application of Fire Safety Codes.

Department of Public Works will provide assistance in Routing and Parking of vehicles.

APPENDIX 1

Evacuees being sheltered in Bourne will utilize the following facilities in the order indicated:

1. Bourne Community Building
2. Massachusetts Maritime Academy
3. Massachusetts National Guard Armory
4. Bourne High School
5. Upper Cape Regional Vocational
6. Peebles Elementary School
7. Bourne Junior High School
8. St. Margaret's Parish Center
9. Knights of Columbus Hall
10. St. Peter's Parish Hall

If school is in session during initiation of this plan, students will be dismissed in accordance with the emergency dismissal program.

ANNEX C PROTECTIVE RESPONSE -- FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. WATER

All potable water supplies in Bourne are derived from underground wells and therefore will not be subjected to contamination.

B. MILK

There are no milk origination sources in the Town of Bourne.

C. OTHER FOOD STUFFS

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;

2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

There are no dairy farms or sources of stored feed, or commercial and large produce farms in the Town of Bourne.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;
2. Verify readings of personal dosimeters worn by emergency workers;
3. Monitor evacuees arriving in the Bourne Reception Area.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director through his RDO. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area II Headquarters;
4. Supporting monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the

incident. Precedence will be given to the Registration Area and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitor activity and periodically report to Massachusetts Civil Defense Agency, Area II Headquarters.

ANNEX E

EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director through his Radiological Defense Officer. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;
2) Distributing dosimeters during an emergency;
3) Advising Fire, Police and other personnel of exposure guidelines for Emergency Workers;
4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Emergency Operating Center located in the Town Hall;
2) Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Town Hall EOC to pick up (1) high level and (1) low level dosimeter;
3) The Radiological Defense Officer will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;
4) The Radiological Defense Officer will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations

will be in accordance with the Massachusetts Radiological Emergency Response Plan and Annex B, Paragraph 4 of this Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Bourne Civil Defense Director, following coordination with the Selectmen is responsible for issuing public announcements relative to the occurance of an incident at the Pilgrim I Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Pilgrim I NPS the Civil Defense Director will contact Radio Stations as outlined in Annex A to issue appropriate releases. Such releases should be consistent with information received from Area II Headquarters, Massachusetts Civil Defense Agency.

Massachusetts Civil Defense Agency utilizing its Emergency Broadcasting System (EBS) will provide initial and timely updated information concerning any Emergency Nuclear Incident at Pilgrim I NPS. Instructions pertaining to local communities should be issued by the Local Civil Defense Director.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary to support reception of evacuees from Plymouth. Those included in this Annex are:

1) Public Safety - The deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.
2) Social Services - The provision of food, shelter, clothing and routine medical services for evacuees.
3) Emergency Medical Services - Includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Pilgrim I NPS.

II. RESPONSIBILITIES

A. PUBLIC SAFETY

The Chief of Police will be primarily responsible for law enforcement activities in reception areas and in directing traffic to reception centers, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. SOCIAL SERVICES

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at shelter areas.

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social assistance. See Annex B, Chapter VI of this plan.

C. FIRE AND EMERGENCY MEDICAL SERVICES

The Bourne Fire Chief will be primarily responsible for fire protection, emergency medical services and decontamination of vehicles in support of evacuees at both reception and sheltering areas. He will undertake appropriate action upon notification by the Civil Defense Director that evacuation has begun utilizing existing department procedures.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. CIVIL DEFENSE DIRECTOR

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. OTHER AGENCIES

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Pilgrim I area.

ANNEX J FUTURE TRAINING AND REQUIREMENTS

I. TRAINING

1. Establish a training course for a minimum of twenty (20) Radiological Monitors and from this course provide advance training for four (4) Radiological Defense Officers. Insure that capability is kept current through refresher courses.
2. Provide initial training for reception/processing teams.
3. Request Red Cross assistance to train shelter personnel.

II. FUTURE REQUIREMENTS

1. Provide required traffic signs and master copies of:
   A. Route maps to Bourne shelters;
   B. Registration Forms.
2. Obtain required number of Radiological Monitoring Sets (CD V-700) and dosimeters with battery charger.
3. Determine source availability for immediate provision of additional clothing.
4. Arrange for provision of cots and blankets from State or Red Cross assets for sheltered evacuees.
5. Make arrangements for duplication master route and installation copies following implementation of this plan.

TOWN OF BRIDGEWATER

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Bridgewater with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could effect the health and safety of the public.

II. AUTHORITY

a. The Town of Bridgewater is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Bridgewater Fire (via NAWAS -- See Section VI below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. Necessary actions to implement the reception from the Town of Plymouth will be taken as further described in the annexes. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. SITUATION

1. Plymouth is in the County of Plymouth, and located in Southeastern Massachusetts. It is bordered on the South by the Towns of Wareham and Bourne, on the West by the Town of Carver, on the North by the Town of Kingston and on the East by the Coastal Waters of Cape Cod Bay. There are three (3) main highways passing through the Town, Routes 3 and 3A running parallel, in a North and South Direction and Route 44, running East and West.

2. The Pilgrim Nuclear Power Station (PNPS) is a single unit station rated at 1998 Mx (th) and located on the western shore of Cape Cod Bay approximately five miles from Plymouth Center. The site contains approximately 528 acres owned by the Boston Edison Company. The nearest residences outside the site boundaries are approximately 2000 feet from the reactor to the northwest and southeast. The site boundary is posted and a security fence erected around the immediate situation area.

3. The Town of Bridgewater, a westerly segment which is approximately thirty (30) miles from the Pilgrim I Nuclear Power Station, could be within the ingestion pathway following a major incident at the Pilgrim I NPS. This could result in recommendations that protective actions be taken in Bridgewater, with respect to food stuffs, especially dairy cattle and milk. The Massachusetts Civil Defense Agency has designated Bridgewater the primary mission of processing all evacuees from the Town of Plymouth in the westerly segments lettered "M" and "L" as

designated on the Pilgrim One NPS map (Attachment 1). This will involve radiological monitoring and decontamination if necessary followed by registration and processing of approximately 6600 Plymouth evacuees during absolute peak season. Bridgewater is capable of sheltering this maximum number of evacuees within the Town. Egress routing will be outlined for evacuees who have registered and do not desire sheltering in Bridgewater.

Bridgewater is situated in Plymouth County and has a population of 14,500. It is bordered on the North by East Bridgewater and West Bridgewater, on the East by Halifax, on the South by Middleboro and on the West by Raynham. The closest large city is Brockton which is approximately eight (8) miles. Principle highways are Routes 18/28 running North and South and Route 104, running East and West. The Town is the site of Bridgewater State College, a number of schools comprised of two school systems, a regional and local system, and is also the site of M. C. I., Bridgewater, a correctional institution.

B. ASSUMPTIONS

1. The primary responsibility and capability for immediate response to a radiological emergency in Bridgewater lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him.
2. Local emergency forces have inventoried available resources, are prepared to deal effectively with limited disaster or emergency conditions in the community, and to receive evacuees from the affected communities.
3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Towns within a ten mile radius or which would require Bridgewater to receive evacuees. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by Bridgewater as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. OBJECTIVES

This concept of operations is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;
2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;
3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter;
5. Provide for the reception and care of persons evacuated during a radiological emergency.

B. MODES OF EXPOSURE

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;
2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;
3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,
4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. PROTECTIVE ACTION

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. PLANNING ZONES

For planning purposes, the area around the Pilgrim One NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Bridgewater lie in Sector N outside of the ten mile radius, but within the ingestion pathway.

E. EMERGENCY OPERATIONS

Emergency operations will be conducted in accordance with the Bridgewater Basic Operations Plan as supplemented by this Plan. The prime Emergency Operating Center (EOC) is located in the Academy Building over the Bridgewater Police Station. An alternate EOC is located in the basement of the Science Building at Bridgewater State College.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan. These responsibilities, and others peculiar to the Radiological Emergency Response Plan are reflected in Annex D of this plan entitled "Radiological Emergency Responsibilities and Functions".

VI. IMPLEMENTATION

A. STANDBY LEVEL

Upon receipt by Bridgewater Police of a "CODE YELLOW" message; either through National Attack Warning System, or via State Civil Defense Area II (Bridgewater) the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A -- Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Bridgewater (Area II Headquarters).

B. ALERT LEVEL

A particular radiological emergency may or may not involve an Alert Level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert Level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A -- Warning and Notification should be carried out.

C. EMERGENCY OPERATIONS LEVEL

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

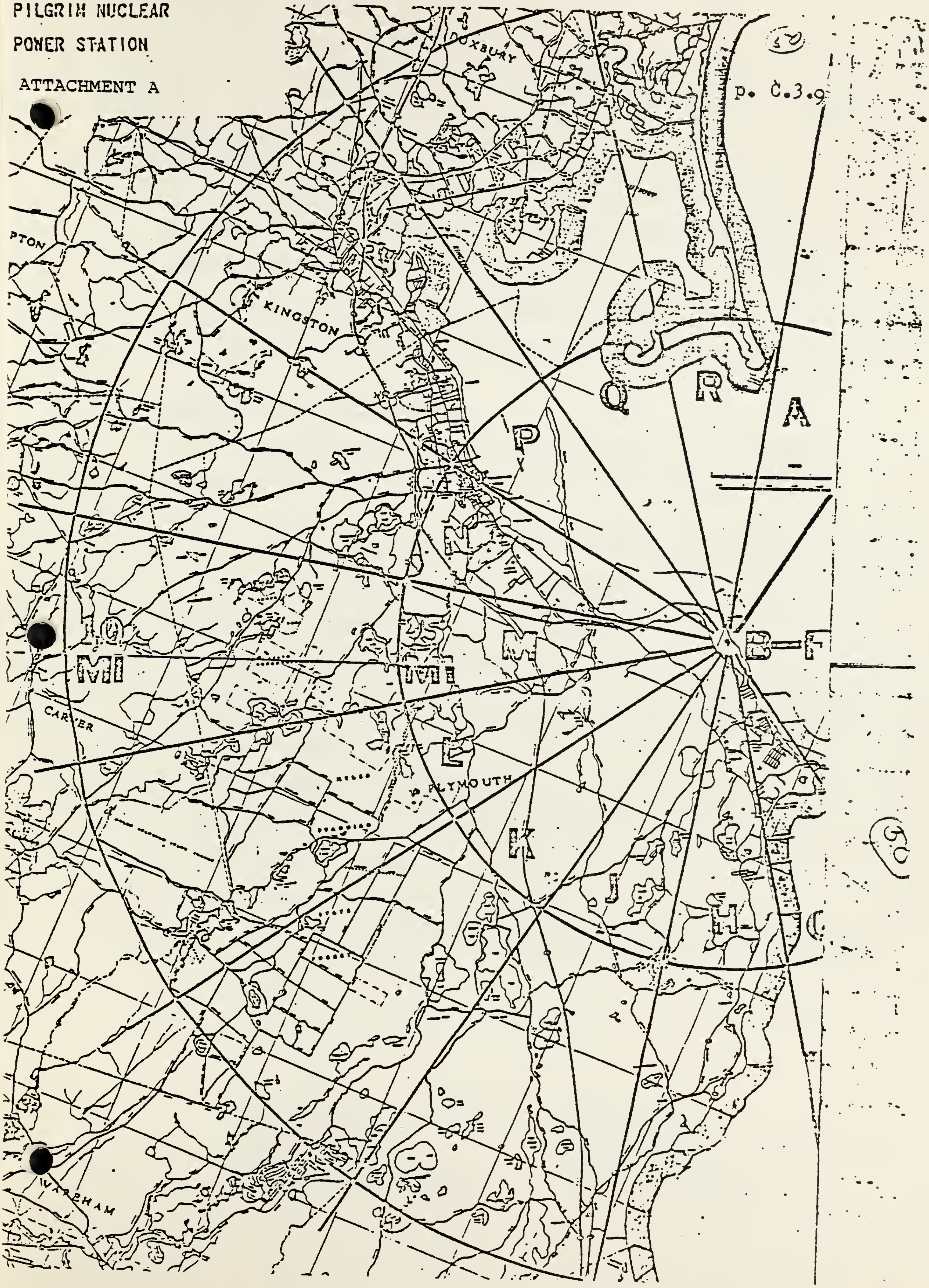
1. Activation of Emergency Operation Center;
2. Activation of Reception Centers;
3. Activation of all required emergency response units;
4. Invoking of mutual aid arrangements;
5. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;
6. Assembly and provision of the intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,
7. The taking of all other steps necessary to minimize loss of life, injuries and damage to property.

PILGRIM NUCLEAR
POWER STATION

ATTACHMENT A

p. C.3.9

52


DUXBURY
PTON
KINGSTON
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10 MI
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M
B
F
CARVER
L
PLYMOUTH
K
J
H
G
WAREHAM

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the Brockton Police to Bridgewater Police of a NAWAS message, 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and possible recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Police Department. Initial warning will come from Bridgewater Police.

Back-up and validation messages will be received as follows:

1. Plymouth County Police Net to Bridgewater Police
2. State Police to Bridgewater Civil Defense
3. Massachusetts Civil Defense to Bridgewater Civil Defense

Validation of Warning messages would be made with Middleboro State Police Barracks.

B. NOTIFICATION OF LOCAL OFFICIALS

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Bridgewater Police to Bridgewater Fire
2. Local Police will initiate Code 100 Major Incident notification Procedure.
3. Local Police will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department
Bridgewater State College
Visiting Nurses Association
Board of Health
Brockton Hospital
Cardinal Cushing Hospital, Brockton
Goddard Hospital, Stoughton
M. C. I., Bridgewater
Old Colony Chapter, Red Cross

The official notification call list appears on the Attachment to this Annex.

3. Upon establishment of emergency operations at the primary EOC, The Local Civil Defense Director or a designee will assure that the initial warning message has been validated and where necessary assume responsibility for completion of notification.

C. PUBLIC NOTIFICATION

1. The immediate notification of the public will not be required in Bridgewater. The general populace will be informed of the fact that Bridgewater will be a host reception community receiving evacuees from the Town of Plymouth. Local Police cruisers and fire vehicles with public address systems will notify people living along Route 104 of the fact that evacuees will be utilizing that route to the Bridgewater State College. Radio Station WBET in Brockton will receive public warning messages as well as a multitude of Boston, Plymouth and other surrounding community radio stations from both State Civil Defense and local Civil Defense.

TOWN OF BRIDGEWATER
CIVIL DEFENSE
AGENCY
ACADEMY BUILDING
BRIDGEWATER, MASS. 02324

TELEPHONE
697-2160

Attachment I Roster of Key Officials

Office, Selectmen			697-3700		
	John Hickey	(Chairman	697-4467		
	David Canepa	(Liason,CD -Town Gov't0	697-6217		
	Donald Buron		697-4265		
Police Dep't.	Wm. Ferioli	(Chief)	697-6118	Office	**
	Wm. Nicolas	(patrolman0 CD staff	697-6118		**
Fire Dep't.	Clarence Levy	(Chief)	697-6123	""	**
	Roderick Walsh	(Dep. Chief)	697-6123	""	697-7476
Highway Dep't.	Albert Benninati	(Sup't)	697-2115	""	**
School Systems	Public	(Childs Sup't.)	697-6914	""	**
	Regional	(Denton Sup't.)	697-6902	""	**
Board of Health	(John Meadows)	(Chairman)	697-6454	""	697-4020
American Red Cross	(Old Colony Chapter) Brockton		588-7180		
Bridgewater Town Engineer	(Chas. Hebert)		697-4114		
Bridgewater State College	(Lou. Perry Sup't Bldgs. CD-Staff)		697-8321	""	697-4979
Brockton Hospital			586-2600		
Cardinal Cushing			588-4000		
Goddard Memorial			344-5100		
Disaster & Evacuation Chairman	(Ronald Pagels)		697-2707		
Aux. Police	(Ronald Pagels Cap't.		697-2707		
Comm. of Mass. National Guard, Co., 101 st. Eng. Batt.			69704290		
Shore Ambulance			871-1616		
Bridgewater CD medical officer	(Dr. Leo Zalon)		697-4634		

** Home phones not listed or published.

ANNEX B PROTECTIVE RESPONSE -- RECEPTION, PROCESSING AND SHELTERING

I. INTRODUCTION

The Massachusetts Department of Public Health through the Massachusetts Civil Defense Agency may direct evacuating portions or all of the ten mile radius surrounding the Pilgrim I NPS to protect against the direct effects of a gaseous or liquid radiological release.

In the event that sectors M and L are evacuated personnel from Plymouth will proceed to Bridgewater for processing, relocation and shelter assignment. Evacuation may be directed for those areas nearest the power station, i.e. up to a three mile radius, five mile radius, or any other distance dependent on protective actions required.

Evacuation action will bebased upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

Reception, processing and sheltering actions are covered separately below.

II. RECEPTION

A. GENERAL

Plymouth Evacuees will proceed West on Route 3A to Route 106 to Route 104 to a marked entrance of Bridgewater State College to the radiological monitoring point and emergency medical treatment area. Personnel requiring decontamination will be diverted to the Great Hill parking area and proceed to the gymnasium for decontamination followed by registration. Personnel requiring medical treatment will be attended by the medical team (see Annex G).

All other evacuees will be registered, processed and given shelter assignments, at the Campus Lab School.

Bridgewater will shelter all of the 6600 evacuees.

B. RESPONSIBILITIES AND PROCEDURES

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that evacuation is directed in Plymouth the local Civil Defense Director will implement this plan.
2. Public warning messages will be selected or formulated, and dispersed by the local Civil Defense Director, in accordance with Annex A.
3. The local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area II Headquarters in Bridgewater, for updated advice on the length of shelter period required for evacuees, or further protective actions required for the Town of Bridgewater

III. ROUTING

A. GENERAL

Access control will outline routing and procedures to be followed for all evacuees to reach Bridgewater State College reception/processing area.

Egress control will outline the routing for evacuation to take from Bridgewater State College following reception and processing to housing of their own selection outside of the area.

B. RESPONSIBILITIES AND PROCEDURES

1. The responsibility for determining access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.
3. Responsibility for carrying out access control actions rests primarily with the Bridgewater Police Department, with support from Highway Department and Bridgewater State College. Additional support will be available through Civil Defense.
   - (a) Upon receipt of notification of the pending arrival of evacuees, the Bridgewater Civil Defense Director will notify the Bridgewater Police Chief and the Bridgewater Department of Public Works, and Bridgewater State College,
   - (b) The Police Chief will assign traffic control officers as indicated in Attachment #1,
   - (c) The Department of Highway Superintendent working with the Police Chief will provide for the placement of the necessary traffic control signs for direction to the registration, housing locations and egress routes as indicated in attachment #2,
4. An access control point will be established at the entrance to the college on Route 104.

   Egress control will be marked by signs within the college grounds and evacuees performing further travel will be provided with reception route handouts following registration.

IV. RADIOLOGICAL MONITORING AND DECONTAMINATION PROCEDURES

A. GENERAL

During the initial reception of evacuees from the Plymouth Area, the first step required will be an accurate assessment of contamination of both personnel and vehicles. This will be performed at a radiological monitoring station clearly designated in the entrance lane to the Bridgewater State College. A minimum of three (3) two-man radiological monitoring teams will be required for this effort. Cars will be diverted from a single lane entry into three (3) lanes as they approach the monitoring station. A team will be assigned to each lane with a monitor evaluating each side of a care as it approaches. Following external monitoring of the vehicle, passengers will debark for individual monitoring. If the vehicle and passengers are not contaminated they will be directed to the main parking area and proceed through reception and processing. If cars or personnel are found to be contaminated, they will proceed to the Great Hill parking area where their cars will be left until they are decontaminated. Passengers will proceed to the rear door of the gymnasium for decontamination.

Inside of the gymnasium signs will direct personnel to male and female shower areas. Personnel will first shower fully clothed, remove clothing and place in an appropriate waste container. Personnel will then shower completely with hot water and soap and be issued clean clothing. Following the decontamination process personnel will again be monitored by a radiological monitor, at the exit of the shower area.

Registration and processing of personnel following decontamination will take place on the second floor of the gymnasium building.

B. RESPONSIBILITIES AND PROCEDURES

Radiological monitoring requirements are stipulated in Annex D and will be under the supervision of the local Civil Defense Radiological Defense Officer.

V. EMERGENCY MEDICAL PROCEDURES

A. GENERAL

An emergency medical team with an ambulance will be located adjacent to the entry Radiological Monitoring Station and will be available for emergency medical treatment upon the initial arrival of vehicles in the college parking areas. Any personnel requiring hospital treatment will be transported to one of the three (3) hospitals outlined in this plan. If personnel requiring hospitalization are contaminated they will be directed to the Goddard Hospital in Stoughton which is qualified to receive radiological victims.

B. RESPONSIBILITIES AND PROCEDURES

The Bridgewater Fire Department will assume responsibility for all emergency medical team requirements including close coordination with the medical personnel from the Bridgewater State College.

VI. REGISTRATION AND PROCESSING

A. GENERAL

Registration and processing will be accomplished primarily in the Campus Laboratory School which will be designated by a sign. Evacuees will park in the ballfield area and walk to the reception area designated by a sign. Personnel will proceed to the gymnasium area for a holding period if necessary. They will proceed from the holding area to the cafeteria where registration forms will be filled out and shelter areas assigned. Personnel who do not desire shelter will indicate a forwarding address and telephone number if known and be provided with an egress route map with instructions on how to proceed from Bridgewater.

If school children are evacuated by school bus from the Plymouth area, they will be assigned to a designated holding area until their parents register and are reunited.

B. RESPONSIBILITIES AND PROCEDURES

The Bridgewater State College will be responsible for establishing and conducting the registration,processing and shelter assignment and egress routing or all evacuees. Detailed procedures outlining personnel requirements, processing layout, an outline map and support requirements will be contained in Attachment I to this Annex to be published at a later date.

ANNEX B.

Attachment I. Traffic Control Procedures

Being developed by the Police Chief

ANNEX B

Attachment 2. Traffic Control Signs/Barriers

Being developed by the Highway Supt. with the assistance of the Police Chief

PROTECTIVE RESPONSE -- FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion parthway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs, and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. WATER

All water supplies within the Town of Bridgewater are contained in underground wells and no external source of water from a reservoir outside of Town is required. It is therefore not anticipated that any protective action would be required to protect the water source in an ingestion pathway.

B. MILK

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. OTHER FOODSTUFFS

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of: 1) dairy farms; 2) sources of stored feed; and 3) commercial and large produce farms appear as Attachment A to this Annex.

V. WARNING

The local Civil Defense Director acting upon advise received from the Massachusetts Civil Defense Agency and the Department of Public Health will issue protective action guideline warnings to all personnel residing in the community pertaining to individual home gardens and individually owned livestock.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;
2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area II Headquarters;
4. Supporting, where necessary,monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to Bridgewater State College. Precedence will be given to the radiological monitoring teams at the arrival checkpoint and decontamination area.
2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area II Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording or personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;
2) Distributing dosimeters during an emergency;
3) Advising Fire, Police and other personnel of exposure guidelines for emergency workers;
4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment to emergency workers at Bridgewater State College.
2) Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings.
3) The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.
    a. A decontamination station will be set up in the gymnasium at Bridgewater State College.

b. The station will be manned by personnel from the Bridgewater Civil Defense office.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Bridgewater Civil Defense Director, or his designee, is responsible, following coordination with the Selectmen, for issuing public announcements relative to the occurance of an incident at the Pilgrim One NPS. These announcements should additionally be coordinated with Area II Massachusetts Civil Defense Agency.

III. PROCEDURES

Upon notification that there has been an incident at the Pilgrim One NPS the Bridgewater Civil Defense Director or his designee, will contact radio station WBET in Brockton, WPEP in Taunton and other news media to issue appropriate releases. Such releases should be consistent with information received from Area II Headquarters, Massachusetts Civil Defense Agency.

Prepared news releases informing the public of the current status of an on-going incident at Pilgrim One NPS will be made on an Area basis through radio, television and newspapers from Massachusetts Civil Defense Agency Headquarters.

The Civil Defense Director will issue further information to the public periodically over radio and television to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary to support evacuation in Bridgewater of personnel evacuated from Plymouth. Those included in this Annex are:

1) Public Safety -- the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.
2) Social Services - - the provision of food, shelter, clothing and routine medical services for evacuees.
3) Emergency Medical Services -- includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Bridgewater State College, Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Pilgrim One Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. PUBLIC SAFETY

The chief of Police will be primarily responsible for law enforcement activities in evacuation reception areas, and in directing traffic to the reception center, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures (see Annex B, App. 1 & 2).

Support may be available, through Bridgewater State College Campus Police and mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. SOCIAL SERVICES

Bridgewater State College will make available facilities and personnel to provide the bulk of Social Services support outlined in this Plan. Additional assistance if required may be available through the American Red Cross, Old Colony Chapter in Brockton.

Attachment I to this Annex outlines detailed personnel requirements, administrative concepts and required procedures for implementation of Social Services.

C. EMERGENCY MEDICAL SERVICES

Ambulance service will be provided through Bridgewater Fire Department by the Shore Ambulance Service, Emergency Medical Services will be provided by Bridgewater Fire Department EMT's with support from Shore Ambulance.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the Plan That ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. CIVIL DEFENSE DIRECTOR

The Civil Defense Director has primary responsibility for plan document control, plan updating and the conduct of all tests and exercises.

B. OTHER AGENCIES

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for Towns in the Pilgrim One NPS area.

ANNEX J FUTURE TRAINING AND LOGISTICS REQUIREMENTS

I. GENERAL

The following shortcomings exist at the present time with respect to immediate implementation of this plan and must be addressed for future actions to insure bull implementation capability.

A. TRAINING

The majority of trained Radiological Monitors in the Town of Bridgewater are foundin the Police and Fire Department First Responder Corps. Additional training of radiological monitors is required and is recommended to be conducted at the Bridgewater State College. This will provide a nucleus of personnel available from the facility that will be handling the radiological monitoring of evacuees.

Shelter management training should be conducted to insure availability of qualified personnel. It is recommended that these personnel be trained from the existing group of residential aides and counsellors in the college.

An additional training course consisting primarily of clerical personnel from the college should be established to encompass all facets of registration and housing assignments.

B. LOGISTICS REQUIREMENTS

1. An additional supply of CD V-700 radiological monitors will be required to insure availability of one in each emergency response vehicle as well as ten (10) for radiological monitoring teams outlined in this plan.
2. An additional thirty (30) dosimeters without chargers are required to support this plan.

3. Identification tags and availability of clothing for personnel following the decontamination process.
4. A source of funds to reimburse the community for expenses involved in the implementation of this plan. This requirement exists on an immediate basis for expenditures involving sign making, identification badges, or other materials required prior to the implementation of this plan and on a follow-up reimbursement basis for costs incurred incidental to the implementation of the plan.

TOWN OF CARVER, MASSACHUSETTS

1979

RADIOLOGICAL EMERGENCY RESPONSE PLAN

Virginia K. Ford, Selectwoman, Chairwoman
Frank R. Mazzilli, Selectman
Daniel B. Daly, Jr., Selectman

Prepared by:
Frank R. Mazzilli, CD Director
Thomas R. Evancho, Asst. Direc

TOWN OF CARVER

RADIOLOGICAL EMERGENCY RESPONSE PLAN

1. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Carver with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could effect the health and safety of the public.

II. AUTHORITY

a. The Town of Carver is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at the Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to the local Fire department, or to the local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Pilgrim I is located in the Town of Plymouth, Mass., in Plymouth County on the shores of the Atlantic Ocean, immediately north of Manomet. This site contains about 528 acres owned by the Boston Edison Co. The land is bounded on the north, south and west by privately owned land and on the east by Cape Cod Bay. Site coordinates are approximately 41 Degrees 55 north Latitude and 70 degrees 35" west Longitude.

2. Carver is situated west of Plymouth and has a land area of 38.41 square miles. Population as of 1979 is 5,975. Carver is approximately 96 feet above mean sea level. Within the 10 mile risk area there are approximately 1200 people.

3. Principal highways are Rte. 44 running west from Plymouth into Carver.

   Route 58 running North to south borders Wareham to the south and Plympton to the north.

B. ASSUMPTIONS

1. The primary responsibility and capability for immediate response to a radiological emergency in Carver lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. OBJECTIVES

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective actions involves evacuation or shelter.

B. MODES OF EXPOSURE

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. PROTECTIVE ACTION

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected area.
4. Pasturage and Dairy animal Feed control.
5. Control of Milk, Other Foodstuffs, and Water
6. Administration of Radioprotective Drugs.

D. PLANNING ZONES

For planning purposes, the area around the Pilgrim I NPS has been divided into 16 radial sections. Sector A has a center line pointing thru North and Sectors are designated alphabetically in a clockwise direction. Parts of Carver lie in Sectors M and L.and N. **See attached Radial Map, Pilgrim MPS.**

E. EMERGENCY OPERATIONS

Emergency operations will be conducted in accordance with the Carver Basic Operations Plan as supplemented by this Plan. The Town Hall will be utilized as the Emergency Operating Center.

IV. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan. These responsibilities, and others peculiar to the Radiological Emergency Response Plan are reflected in Exhibit 1, "Radiological Emergency Responsibilities and Functions."

V. IMPLEMENTATION

A. Standby Level

Upon receipt by Carver Police of a "CODE YELLOW" message: through State Civil Defense Area II (Bridgewater) (National Attack Warning System), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A.-------Warning and Notification:

2. Such Officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;

3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Bridgewater.

B. ALERT LEVEL

A particular radiological emergency may or may not involve an Alert Level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A--Warning and Notification should be carried out.

C. EMERGENCY OPERATIONS LEVEL

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;

2. Activation of all required emergency response units;

3. Invoking of mutual aid arrangements;

4. Requesting State and/or Federal assistance, in accordance with; the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,

6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX "A" - - WARNING AND NOTIFICATION

1. INTRODUCTION

The warning and notification function involves three(3) phases:

1. receipt of initial warning from the State or Power Station;
2. Notification of involved local officials of a standby, alert or emergency operations condition,
3. Notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Police Department. Initial warning will come from the State Police (Middleboro)

1. State Police to Carver Police Dept.
2. Massachusetts Civil Defense to local Civil Defense

   Red phones and monitors should be used to acknowledge initial alerts.

B. NOTIFICATION OF LOCAL OFFICIALS

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Local Police will initiate a Signal Major Incident notification procedure.
2. Local Police and Fire will notify the following agencies and officials by telephone:

   Civil Defense
   Chairman, Board of Selectmen
   Highway Department
   School Department
   Governor John Carver School
   Board of Health

3. Upon establishment of emergency operations at the Town Hall, the local Civil Defense Director or a designee will determine validate notification, and where necessary assume responsibility for completion of notification. Official call list attached.

C. PUBLIC NOTIFICATION

1. The primary mechanism for public notification will be Police Department teams, dispatched on established routes throughout Carver, to conduct a street to street loudspeaker notification.

2. Radio Station WPLM and WATD will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV Stations received locally will be carrying emergency public information.

3. Miles Standish Forest Campgrounds will be notified by Park Rangers.

4. The main population will be warned by the Fire Department Sirens, which are posted in both headquarters.

Town of Carver, Mass. -- Radiological Emergency Response Plan

ATTACHMENT I

Key Department Heads

Civil Defense Director	Frank R. Mazzilli	866-2561
Chairman, Board of Selectmen	Virginia K. Ford	866-4927
Selectman	Daniel B. Daly, Jr.	866-2561
Chief of Police	Thomas Orr	866-2100
Fire Chief	Dana E. Harriman	866-4940
Chairman, Bd. of Public Works	William R. Holmes	866-3876
Building Inspector	Solon Johnson	866-4446
Wire Inspector	Charles Saunders	866-2795
Plumbing Inspector	George Cedarstrom	866-2475
Board of Health	Mildred Kelley	866-4421
School Committee	Erwin Washburn	866-3666
Dog Officer	Peter Andrews	866-2525
Library	Nancy Mott	866-4074
DPW Superintendent	Leighton F. Peck	295-7758
Asst. Civil Defense Director	Thomas R. Evancho	866-4406
Asst. Civil Defense Director	William Baird	866-2010

ANNEX B PROTECTIVE RESPONSE--EVACUATION, SHELTER AND ACCESS CONTROL

I. INTRODUCTION

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include the entire Town of Carver, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in a Westerly direction, it is most likely be recommended to evacuate the southeast portion of the town. See map- Section C - 1200-1500 people.

In such a case local officials may choose to direct the evacuees in a special direction. (Referral to Section Annex B Section IV #5.)

Shelter, Access Contol, and Evacuation Actions are covered separately below.

II. General

Depending upon time available, citizens may be advised to take shelter in one of two ways:

1. Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or
2. Take the best available shelter in homes, schools, offices, or businesses.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. RESPONSIBILITIES AND PROCEDURES

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area II headquarters in Bridgewater, for updated advise on length of shelter period, or further necessary protective actions.

III. ACCESS CONTROL

A. GENERAL

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. RESPONSIBILITIES AND PROCEDURES

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.
2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectman with all necessary intelligence, and, in their absence, initiate necessary access control actions.
3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are enclosed on attached sheets. (see end of this paragraph)

A-1. Area of Evacuation-

1. With the Town of Carver partially within the ten mile area of the Plymouth Pilgrim I Nuclear Power Plant the point in question would if necessary be evacuated.
2. Names, house numbers, telephone numbers and the amount in households in the area would be obtained for information needed for the evacuation.
3. A chain of calls system would be devised to alert the area in question of the evacuation.
4. A plan of traffic flow would be devised for this evacuation, to speed the flow of traffic and lessen confusion.
5. Meetings and written plans for these certain area families in the area are in the making. Knowledge of the plans would lessen confusion.

Annex B.

Evacuation of residents will be by the following routes:

Those in area N would be advised to take Rt. 44 West and follow on to Center St. to Rt. 58. At the time directions to a certain shelter would be most likely Gov. Carver school.

Those in area M would take South Meadow Rd. westbound to Rt. 58 - Rt. 58 north to Town Hall, for one of the designated areas for shelter.

Those in area L would take Federal Furnace Rd. northbound to South Meadow Rd. to Rt. 58 and Rt. 58 north to Town Hall area to a shelter directed.

IV. EVACUATION

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. RESPONSIBILITIES AND PROCEDURES

1. The responsibility for acting upon advise from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.
2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.
3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.
4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. The Carver School Department shall be responsible for the housing of the students and the evacuees.

6. Evacuation of the area within the 10 mile limit will be transported by autos and buses if necessary and transported to Governor Carver School. Reception capabilities would be 1500 - 1700 people. Three trained men would be handling radiological monitoring. The population in Carver can be taken care of by using:

   A. Governor John Carver School

   B. Carver Town Hall

   C. Carver Police/Fire Station

   Showers and storage areas would be used to monitor radiation.

All personnel arriving at the radiological monitoring checkpoint (Governor John Carver School) will be monitored before entering the school parking lot. Those found contaminated will be dispatched with vehciles to the Carver Police/Fire Station for decontamination, and processing, Contaminated vehicles will be directed to Police/Fire garage for decontamina;tion. Following decontamination personnel will be registered and sheltered at the Police/Fire Station.

ANNEX C. PROTECTIVE RESPONSE---FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminted pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection , analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. WATER

Because of the Town ofCarver does not depend on reservoirs, or a special water district, only on private water wells, the water in the areas should not be contaminated, but should be checked and the Civil Defense Director will direct implementation of appropriate action.

B. MILK

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions;

C. OTHER FOODSTUFFS

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;

2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;
2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area Headquarters.
4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitor activity, and periodically resport to Massachusetts Civil Defense Agency, Area II Headquarters in Bridgewater.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1. Maintaining adequate inventories of both high and low range personal dosimeters;
2. Distributing dosimeters during an emergency;
3. Advising Fire, Police and other personnel of exposure guidelines for emergency workers;
4. Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1. Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Town Hall.
2. Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Town Hall, to pick up (1) High level and (2) low level dosimeter.
3. The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;
4. The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiolobical Emergency Response Plan.

ANNEX-F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the isssuances of public information.

II. RESPONSIBILITY

The Carver Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurance of an incident at the Plymouth Pilgrim I Nuclear Power Plant.

III. PROCEDURE

Upon notification that ther has been and incident at the Pilgrim I Nuclear Power Station the Carver Civil Defense Director, or his designee, will contact Radio Station WPLM, in Plymouth and Channel 6, New Bedford, a TV station to issue appropriate releases. Such releases should be consistent with information received from Area II Headquarters, Bridgewater, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE # 1

An alert has been declared by Pligrim I for its Nuclear Power Station in Plymouth, Mass. This alert has resulted because of an emergency condition at the plant site. NO radiation hazard exists and NO danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. DO NOT GO TO THE PLANT AREA. REPEAT---DO NOT GO TO THE PLANT--DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAT TUNED.

NEWS RELEASE # 2.

An emergency alert has been declared by Plymouth Pilgrim Nuclear Power Station in Plymouth, Mass. There has been a release of radioactive material at the plant site. No, danger is expected outside the plant boundary. Do Not Call or go to the plant area. Local and state Public health and civil defense officials will advise if other steps are required. Repeat--THIS IS AN EMERGENCY ALERT---STAY TUNED FOR INSTRUCTIONS......

NEWS RELEASE #3

An emergency alert has been declared by Plymouth Pilgrim I for its Nuclear Power station in Plymouth, Mass. If a public hazard develops you will be notified via this radio/TV station and / or Civil Defense Officials and/or Police and Fire personnel. (IF YOU ARE ASKED TO EVACUATE, PLEASE DO SO ACCORDING TO INSTRUCTIONS. MOVE WITH CAUTION AND FOLLOW DIRECTIONS.) DO NOT CALL OR GO TO THE PLANT AREA. DO NOT EVACUATE UNLESS ORDERED. STAY TUNED FOR FURTHER INFORMATION.

PROCEDURE-----(CONTINUED)

The Carver Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G - SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1. Public Safety--the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas, during the emergency period.

2. Social Services--the provision of food, shelter, clothes and routine medical services for evacuees.

3. Emergency Medical Services--includes transport of the sick and injured, hospital care, and physician and nursing care.

These services generally, are necessary in support of a large scale radiation accident involvinga necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the contex of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Plymouth Pilgrim I Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. PUBLIC SAFETY

The Chief of Police willbe primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. SOCIAL SERVICES

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delvered at reception centers in Carver, and elsewhere outside of the Town of Carver.

(Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Plymouth Pilgrim area.)

C. EMERGENCY MEDICAL SERVICES

Town of Carver Ambulance Service will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will cordinate requests for necessary supplementary emergency medical services with the Masschusetts Civil Defense Agency Area II Headquarters, Bridgewater.

ANNEX H----PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in ;this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibility and familiar with necessary procedures.

II. RESPONSIBILITIES

A. CIVIL DEFENSE DIRECTOR

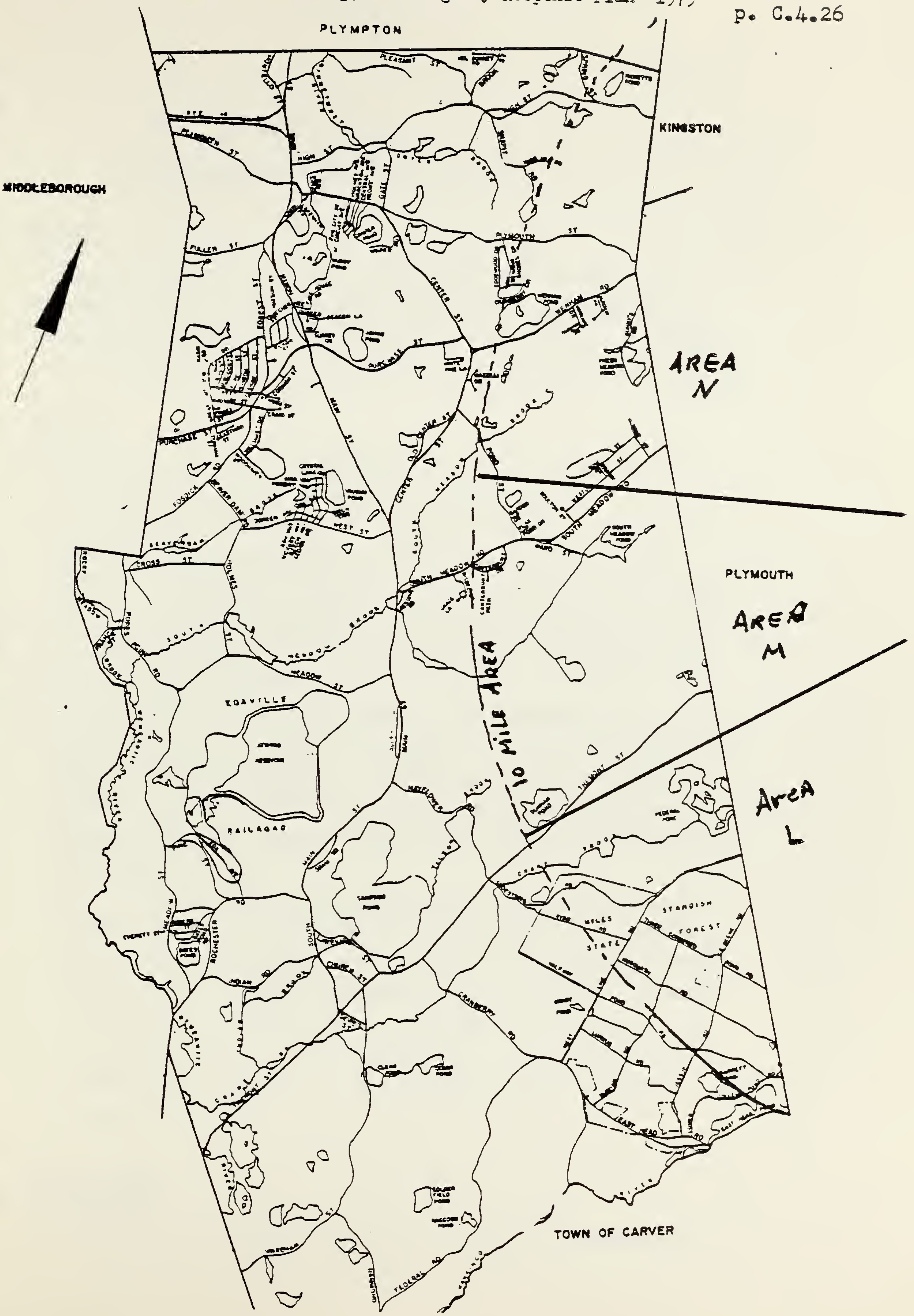
The Civil Defense Director has primary responsibility for Plan document control, Plan updating, and the conduct of all tests and exercises.

B. OTHER AGENCIES

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, ;andparticipating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training and exercises will be consistent with those of the Massachusetts Civil Defense Agency*s Radiological Emergency Response Plan for towns in the Plymouth Pilgrim I Nuclear Power Plant area.


PLYMPTON
KINGSTON
MIDDLEBOROUGH
AREA N
PLYMOUTH
AREA M
Area L
10 MILE AREA
EDAVILLE
RAILROAD
STANDISH
STATE
FOREST
MILES
PLYMOUTH ST
PLEASANT ST
PURCHASE ST
CENTER ST
MAIN ST
WENHAM RD
SOUTH MEADOW RD
MEADOW ST
BEAVER DAM RD
WEST ST
CROSS ST
HOLMES ST
FULLER ST
MAYFLOWER RD
TREMONT ST
CHURCH ST
CRANBERRY RD
EVERETT ST
ROCHESTER
FEDERAL RD
TOWN OF CARVER

TOWN OF DUXBURY

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials, agencies and departments of the Town of Duxbury with a basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Duxbury is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950 as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during Civil Defense Emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a nuclear power station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Duxbury Police (via State Police in Middleboro) and/or to Duxbury Fire (via NAWAS--See Section VI.6 below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local state of emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Pilgrim I is located in the Town of Plymouth, Massachusetts,

in Plymouth County on the west shore of Cape Cod Bay. The site contains about 528 acres owned by the Boston Edison Company. The land is bounded on the north, south and west by privately-owned land, and on the east by Cape Cod Bay. Site coordinates are approximately 41° 55" north latitude and 70° 35" west longitude.

2. The Town of Duxbury, the center of which is approximately ten miles NNW of Pilgrim I N.P.S., could be affected by a major accident at Pilgrim I N.P.S. Duxbury is situated on the west shore of Massachusetts Bay and Kingston Bay. Towns adjoining include Kingston, Pembroke, Marshfield and Plymouth. Principal highways are Routes 3, 3A and 53 running north and south and Route 14 running west.

3. The population of Duxbury is approximately 12,000. The Town is a residential and water front recreational community made up of approximately 26 square miles including a tidal shore line of 37.4 miles. The school system includes the following facilities: Eben Ellison High School (1010 students), Intermediate School (802 students), Upper and Lower Elementary Schools (753 students) and the Chandler Street School (625 students). It is estimated that the summer residential population would add nearly 12,000 to the population. On any given day during the summer this town may experience an influx of 2 to 3 thousand persons at the town's beaches.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Duxbury lies with the emergency forces of the Town. The Board of Selectmen have designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the N.P.S. which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts Plan for Radiological Emergencies, and received by the Town as indicated in Annex A, WARNING AND NOTIFICATION.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required.
2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action.
3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and
4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposures

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;
2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;
3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to restrict immediately the consumption of freshly harvested produce which could have been contaminated and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,
4. Soil can become contaminated from particulates, from passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect the citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation. Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling access to affected areas
4. Pasturage and dairy animal feed control
5. Control of milk, other foodstuffs and water
6. Administration of radioprotective drugs

D. Planning Zones

For planning purposes, the area around Pilgrim I NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center line pointing true north, and sectors are designated alphabetically, in a clockwise direction. Parts of Duxbury lie in sectors P, Q & R, (see attached #1) and are within the ten mile radius.

E. Emergency Operations

Emergency Operations will be conducted in accordance with Duxbury Basic Operations Plan as supplemented by this Plan. The Duxbury Central Fire Station on Tremont Street will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the basic operation plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Duxbury Police direct from State Police in Middleboro or Duxbury Fire also from Plymouth County Fire Network through Whitman Fire Department of a "Code Yellow and/or Code Red" message, the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A -- WARNING AND NOTIFICATION;
2. Such officials will assure the continued availability of required disaster response for as long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency Area II in Bridgewater.

B. Alert Level

A particular radiological emergency may or may not involve an alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — WARNING AND NOTIFICATION shall be carried out.

C. Emergency Operations Level

Upon receipt of a Code Yellow or Red followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, emergency operations activities will commence immediately in addition to those activities covered in the attached Annexes for general action, protective actions and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center
2. Activation of all required Emergency Response Units
3. Involving of mutual aid arrangements with emphasis on assistance from Marshfield and Pembroke
4. Requesting State and/or Federal assistance in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its Radiological Emergency supplements;
5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and
6. The taking of all other steps necessary to minimize the loss of life, injuries and damage to property.

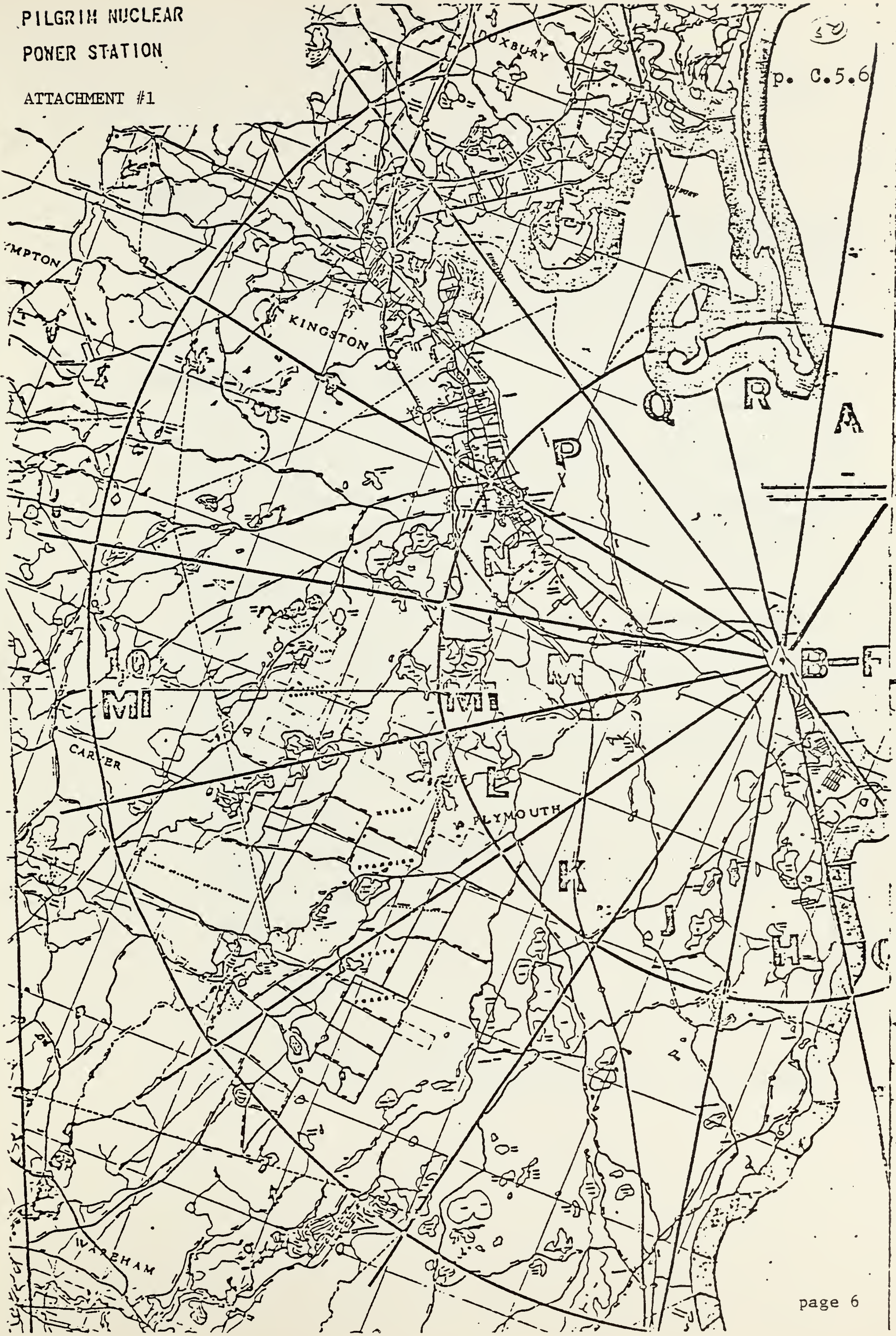
PILGRIM NUCLEAR

POWER STATION

ATTACHMENT #1

(59)

p. C.5.6


DUXBURY
KINGSTON
PLYMOUTH
CARVER
WAREHAM
MPTON
10 MI
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H
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ANNEX A

WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three phases: 1) the receipt of initial warning from the State, 2) notification of involved local Town Officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action which may be taken by the public.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of Duxbury Police Department using 2-wayradio which is in 24-hour operation. There will be back up receipt of warning by the Duxbury Fire Department on a 24-hour basis. Warning will come to the Police and Fire Departments via State Police in Middleboro and/or NAWAS (National Warning System), Duxbury Police and Fire Departments will acknowledge by radio.

B. Notification of Local Officials

Local Police and/or Fire Departments will begin a simultaneous notification as follows:

1. Local Police will initiate signal for major incident notification procedure.
2. Local Police and/or Fire will notify the following agencies and officials by telephone:

   Civil Defense
   Chairman, Board of Selectmen
   Executive Assistant to Board of Selectmen
   Highway Department
   Superintendent of Schools
   Red Cross
   Board of Health
   Harbormaster
   Beach Conservation Officer

The official notification call list appears on the following page.

OFFICIAL NOTIFICATION CALL LIST

Civil Defense - Director	585-3130 or 585-8793
Civil Defense - Deputy Director	934-5691 or 934-2174
Board of Selectmen, Chairman	934-6586
Executive Assistant	934-6586
Highway Department Superintendent	934-6586
School Department	934-5601
Board of Health	934-2173
Harbormaster	934-2866
Beach Conservation Officer	934-6586
Red Cross	934-5691

3. Upon establishment of emergency operations at the Duxbury Fire Station, the local Civil Defense Director or a designee will validate notification, and where necessary, assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be combined effort of Police, Fire Department, Beach Conservation Officer & Harbormaster teams, dispatched on established routes throughout Duxbury, to conduct public address and loud-hailer notification. Assignments and routes appear as Attachment 1 to this Annex.

2. Radio station WPLM in Plymouth and WATD in Marshfield plus Channel 4 (WBZ) and radio WBZ will receive public warning messages from both State Civil Defense and Duxbury Civil Defense. Additionally other radio and TV stations received locally will be carrying emergency public information.

3. It shall be the duty of the Harbormaster to notify all persons on boats on Duxbury Bay, to notify by loudspeaker residents on Clarke's Island and backup notification of Gurnet-Saquish Area, which area is geographically located within the boundaries of Plymouth.

WARNING NOTIFICATION
ROUTE/ZONE LISTING

ATTACHMENT I TO ANNEX A

This S O P is in process of being developed by the Police and Fire Departments.

[RESERVED]

[RESERVED]

ANNEX B

PROTECTIVE RESPONSE-EVACUATION
SHELTER AND ACCESS CONTROL

I. INTRODUCTION

Evacuation, shelter and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous of liquid radiological release.

The recommended action will be based upon protective action guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

Notification, evacuation, shelter and reception plans include approximately 50% of the Town of Duxbury.

Plans involve the potential evacuation processing of approximately 75% of the Duxbury peak (12,000) to the Furnace Brook School and Grace Ryder School, Rt. 3A, Marshfield. The locations of the two schools in Marshfield would provide direct movement northwest away from the nuclear plant for the potentially affected 10 mile zone of the Town of Duxbury which falls within Sectors P, Q & R. The Chandler Street School is located outside of the 10 mile area and will be utilized for processing/sheltering specialized categories of persons as determined by the Duxbury Civil Defense Director.

Shelter, access control and evacuation actions are covered separately below.

II. SHELTER

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways:

1) assemble in public shelters and processing centers as described above, or 2) take the best available shelter in homes, schools or offices. Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health Determination that shelter is recommended in a given area, the local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the local Civil Defense Director, in accordance with Annex A.

3. The local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area II headquarters in Bridgewater, for updated advice on length of shelter period, or further necessary protective actions.

III. ACCESS CONTROL

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rest primarily with the Police Department, with the support of the Highway Department. Additional support will be available through Civil Defense.

4.Access control points will be established as necessary, depending upon the affected area. Key points are:

Key Points:

Route 3 - intersection at Route 3A
Route 3 - intersection at Route 14
Route 3A -at the Town of Marshfield line
Route 53 - at the Town of Pembroke line
Route 53 - at Bongi's Turkey Farm

IV. EVACUATION

A. General

Evacuation involved notification to the public (Annex A) living within an affected area are to leave their homes, business or recreation area and report to a registration center as previously described. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.
2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and in their absence, initiate necessary evacuation measures.
3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.
4. The responsibility for traffic control lies with the Police Department with support from the Highway Department. Additional support will be available through Civil Defense.
5. Evacuation of Residents will be by the following routes:
   A. North on Route 3 A to Marshfield
   B. North on Lincoln Street to Marshfield
   C. Special category persons to Chandler Street School via west on Tobey Garden Street, Elm Street to Summer Street.
6. The Furnace Brook and Grace Ryder Schools, Marshfield and Chandler Street School, Duxbury shall be responsible for receiving evacuees.

7. The Duxbury School Superintendent shall be responsible for the evacuation of students and faculty from Duxbury schools. The Superintendent of the Duxbury School System will be responsible for evacuating the school population from the following schools:
Eben Ellison High School (1010 students)
Upper and Lower Elementary Schools (753 students)
Intermediate School (802 students)
The Assistant Superintendent of Schools has completed this plan.

8. The transportation officer shall coordinate the utilization of 26 buses to transport the school population.

V. RECEPTION/SHELTER CAPABILITY

Marshfield:

Furnace Brook School, Grace Ryder School, South River School, Old Alamo School Total: 4500

Duxbury:

Chandler Street School Total: 500

Persons from Duxbury desiring Public Shelter accomodations which cannot be housed in Duxbury or Marshfield will be routed to the Towns of Pembroke, Scituate and Cohasset from the major processing centers as previously identified. Mutual aid arrangements for this support have been developed.

ANNEX C PROTECTIVE RESPONSE - FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion of cows of contaminated pasturage.

Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time,, although it could be necessary to immediately restrict some harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. A. WATER

Duxbury derives water from artesian wells. Storage in enclosed tank only.

B. MILK

There is one commercial farm (O'Neil Farm) in the Town of Duxbury.

C. OTHER FOODSTUFFS

There are several large acreage commercial cranberry bogs in Duxbury. In addition, there is one commercial vegetable grower (Jay Desmaris). It shall be the responsibility of the Board of Health to maintain awareness of the commercial growers of cranberries, vegetables and dairy farming and to assist in disseminating public information relative to necessary actions.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities.
2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order.
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring.
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area II Headquarters.
4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.
2. The Civil Defense Director will maintain logs of monitoring activity, and periodically report to Massachusetts Civil Defense Agency Area II Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsilility of the Civil Defense Director, assisted by Radiological Defense Officer with the support of the Police and Fire Departments. This responsibility includes:

1. Maintaining adequate inventories of both high and low range personal dosimeters.
2. Distribution of dosimeters during an emergency.
3. Advising fire, police and other personnel of exposure guidelines for emergency workers.
4. Assisting state authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Central Fire Station.
2. Chiefs of services will direct all emergency workers assigned to potentially hazardous areas to the Central Fire Station, to pick up (1) high level and (1) low level dosimeter.
3. The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings.
4. The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and de-contamination centers with State Civil Defense. Procedures for operating monitoring and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this annex is to establish responsibility and procedures for the issuance of public information.

II. RESPONSIBILITY

The Duxbury Civil Defense Director, under guidance of the Board of Selectmen, is responsible for issuing public announcements relative to the occurrence of an incident at the Pilgrim I Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Pilgrim I Nuclear Power Station, the Duxbury Civil Defense Director, or his designee, will contact radio stations WPLM in Plymouth, WATD in Marshfield, WBZ-TV, Channel 4 and WBZ radio in Boston to issue appropriate reaeases. Such releases should be consistent with information received from Area II Headquarters Massachusetts Civil Defense Agency.

TELEPHONES:

WPLM	746-1390 or 2824
WATD	837-1166 or 1169
WBZ-TV	1-787-7000

The following standard releases have been prepared to facilitate the release of public information during an emergency.

NEWS RELEASE #1

An alert has been declared by Boston Edison for its Pilgrim I Nuclear Power Station in Plymouth, Massachusetts. This alert has resulted because of an emergency condition at the plant site. NO radiation hazard exists and NO danger is expected outside the plant boundary. Stay tuned to this radio/tv station for further information. Do not go to the plant area. REPEAT -- DO NOT GO TO THE PLANT -- DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Boston Edison for its Pilgrim I nuclear Power Station in Plymouth, Massachusetts. There has been a release of radioactive material at the plant site. NO DANGER IS EXPECTED OUTSIDE THE PLANT BOUNDARY.DO NOT CALL OR GO TO THE PLANT AREA.

LOCAL AND STATE PUBLIC HEALTH AND CIVIL DEFENSE OFFICIALS WILL ADVISE IF OTHER STEPS ARE REQUIRED. REPEAT --- THIS IS AN EMERGENCY ALERT --- STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Boston Edison for its Pilgrim I Nuclear Power Station in Plymouth, Massachusetts. If a public hazard develops you will be notified via this radio/tv station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to isntructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Duxbury Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety -- the development of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2) Social Services -- the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services -- includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public safety and emergency medical services will be provided in the context of the Massachusetts Civil Defense Agency's area plan for towns in the vicinity of Pilgrim I Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures. Support may be available, through mutual aid arrangements or from the State Police, National Guard or other State resources. Requests for state assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at the major reception areas as designated.

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Duxbury Fire Department will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will be notified to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for the necessary supplementary emergency medical services with Massachusetts Civil Defense Agency Area II Headquarters.

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has the primary responsibility for plan document control, plan updating and the conduct of all tests and exercises.

B. Other Agencies

Other agencies and departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the area of Boston Edison's Pilgrim I Nuclear Power Station.

TOWN OF HANOVER

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Hanover with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Hanover is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from State Police Headquarters to Hanover Police (via NAWAS - see Section VI. below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. Necessary actions to implement the reception from the Town of Plymouth will be taken as further described in the annexes. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. The Pilgrim Nuclear Power Station (PNPS) is a single unit station rated at 1998 Mx (th) and located on the western shore of Cape Cod Bay approximately five miles from Plymouth Center. The site contains approximately 528 acres owned by the Boston Edison Company. The nearest residences outside the site boundaries are approximately 2000 feet from the reactor to the northwest and southeast. The site boundary is posted and a security fence erected around the immediate situation area.

2. Plymouth is in the County of Plymouth, and located in Southeastern Massachusetts. It is bordered on the South by the Towns of Wareham and Bourne, on the West by the Town of Carver, on the North by the Town of Kingston and on the East by the Coastal Waters of Cape Cod Bay. There are three (3) main highways passing through the Town. Route 3 and 3A running parallel, in a North and South direction and Route 44, running East and West.

3. The Town of Hanover, a northwesterly segment, which is approximately 22 miles from the Pilgrim I NPS, could be within the ingestion pathway following a major incident at the Pilgrim I NPS. This could result in recommendations that protective actions be taken in Hanover with respect to food stuffs, especially dairy cattle and milk.

   The Massachusetts Civil Defense Agency has designated Hanover the primary mission of processing all evacuees from Plymouth in the Northwesterly segments lettered P and N as designated on the Pilgrim I NPS Map (Attachment 1). This will involve Radiological Monitoring and decontamination, if necessary, followed by registration and processing of approximately 49,000 Plymouth evacuees during absolute peak seasons.

   Hanover is capable of sheltering a maximum of 5,000 evacuees within the town. Mutual aid agreements will be formulated with surrounding communities to shelter the remaining evacuees following registration and processing in Hanover.

   Hanover is located in southeastern Massachusetts in Plymouth County approximately twenty miles south of Boston. It is midway between Boston and Plymouth in a north south direction and Brockton and the sea coast in an east west direction. It is bordered on the north by Norwell and Rockland, on the west by Rockland, on the south by Hanson and Pembroke, and in the east by Norwell. The town is traversed by route 3 and routes 123 and 139.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Hanover lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him.

2. Local emergency forces have inventoried available resources, are prepared to deal effectively with limited disaster or emergency conditions in the community, and to receive evacuees from the affected communities.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Towns within a ten-mile radius or which would require the Town of Hanover to receive evacuees. Such notification will be made through the mechanisms de-

tailed in the Massachusetts plan for radiological emergencies, and received by Hanover as indicated in Annex A, Warning and Notification.

CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;
2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;
3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,
4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter;
5. Provide for the reception and care of persons evacuated due to a radiological emergency.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;
2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;
3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Pilgrim I NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Hanover lie in Sectors P and Q outside of the ten-mile radius, but within the ingestion pathway (Neither "I" or "O" are used as sector designators.) (See Appendix 1).

E. Emergency Operations

Emergency operations will be conducted in accordance with the Hanover Basic Operations Plan as supplemented by this Plan. The Town Hall on Hanover Street will be utilized as the Emergency Operating Center. An alternate Emergency Operating Center will be available in the nearest fire station.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan. These responsibilities and others peculiar to the Radiological Emergency Response Plan are reflected in Annex D. "Radiological Emergency Responsibilities and Functions".

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Hanover Police of a "CODE YELLOW" message; either through National Attack Warning System, or via State Civil Defense Area II (Bridgewater) the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A - Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency Area II in Bridgewater.

B. Alert Level

A particular radiological emergency may or may not involve an alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A -- Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes which outline general action, protective actions, and supporting actions; emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of Reception Centers;
3. Activation of all required emergency response units;
4. Invoking of mutual aid arrangements;
5. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;
6. Assembly and provision of the intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,
7. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State Police 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and possible recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Police Department. Initial warning will come from Hanover Police Department via NAWAS from State Police Headquarters.

Back-up and validation messages will be received as follows:

1. Plymouth City Police Network to Hanover Police
2. Massachusetts Civil Defense to local Civil Defense

B. Notification of Local Officials

1. Hanover Police to Hanover Fire
2. Local Police will initiate Major Incident notification procedure as outlined below:

The following agencies and officials will be notified by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department
Board of Health
Visiting Nurse Association
Red Cross

The official notification call list appears on the Attachment to this Annex.

3. Upon establishment of emergency operations at the Town Hall the local Civil Defense Director or a designee will validate notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. It is not envisioned that an audible alarm signal would be required to notify the general public to enact this plan for reception and processing of evacuees from Plymouth.

2. Radio Station WBET and WBZ receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information. This will be the primary means of informing the general public of processing/reception initiation and will also satisfy protective guidelines dissemination.

   The local papers, Brockton Enterprise and Quincy Patriot Ledger, will carry additional written instruction.

   State Civil Defense Headquarters will give emergency information updates over the Emergency Broadcast System (EBS) periodically for the entire area of involvement.

ATTACHMENT 1 - ROSTER OF KEY OFFICIALS

Hanover Police Department	826-2335
Hanover Fire Department	826-2335
Hanover Civil Defense	826-2335 or 826-3001
Department of Public Works	826-3189
Communication Center	826-2335
Board of Health	826-4611
Board of Selectmen	826-2261
Visiting Nurse	826-4971
South Shore Hospital	337-7011
Brockton Hospital	586-2600
Red Cross (Elaine Higgins)	586-4790
Superintendent of Schools	878-0786

ANNEX B RECEPTION--PROCESSING--AND SHELTERING

I. Introduction

The Massachusetts Department of Public Health through the Massachusetts Civil Defense Agency may direct evacuating portions or all of the ten-mile radius surrounding the Pilgrim I NPS to protect against the direct effects of a gaseous or liquid radiological release.

Evacuation action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

In the event that sectors N and P are evacuated personnel from Plymouth will proceed to Hanover for processing, relocation and shelter assignment. Evacuation may be directed for those areas nearest the power station i.e. up to a three-mile radius, five-mile radius, or any other distance dependent of protective actions required.

Reception, Processing and Sheltering Actions are covered separately below.

II. RECEPTION

A. GENERAL

Plymouth Evacuees will proceed north on route 3 to route 53 Hanover, (Exit 31) proceed to south on route 53 to first entrance of Hanover Mall (approximately 1/8 mile) for radiological monitoring and emergency medical treatment if required.

Personnel requiring decontamination will be diverted to either Health Clubs at the south end of the mall.

Personnel requiring medical treatment will be attended by the medical team, comprised of the Hanover EMT's and Visiting Nurse Association.

All evacuees will be registered and processed and given shelter assignments from an area clearly designated in the Mall. (Appendix 1).

Personnel requiring medical attention or decontamination will proceed to the registration area after this function has been accomplished.

Hanover will shelter up to 5,000 evacuees. Following assignments of these spaces, evacuees will be dispatched to adjacent communities, with routing instructions and designated shelters. (Appendix 2).

For evacuees being sheltered in Hanover, they will proceed south on route 53 to route 139 turning right (westerly) to Pleasant Street, continue to Whiting Street to the entrance of the Junior High School. The facilities will be utilized in the following rotation:

Junior High School
Senior High School
Cedar Elementary School

If school is in session during initiation of this plan, students will be dismissed in accordance with the emergency dismissal program.

B. RESPONSIBILITIES AND PROCEDURES

The local Civil Defense Director will be responsible for the overall reception and processing of evacuees. To accomplish this he will designate a processing team comprised of town administrative personnel in cooperation with the selectmen.

Following radiological monitoring of vehicles and personnel, cars will be directed to a designated area in the front of the Mall, weather permitting. Processing teams will be established in three lanes and will register, process, and issue shelter assignments to evacuees, who will remain in their vehicles. If inclement weather is encountered, evacuees will park their vehicles and proceed to the main entrance of the Mall for processing in an established area of the lobby. Evacuees not requiring sheltering will be issued instructional maps with designated routing for ongoing travel. Evacuees not being sheltered in Hanover will be given shelter assignments in designated adjacent communities with a route map to their shelter. (Appendix 4)

III. ROUTING

A. GENERAL

Access routing will be via route 3 to exit 31 to route 53 south. Route 53 northbound will be blocked from just north of the ramp exit to just south of the mall and converted to a southbound traffic flow to expedite the entry to the mall area. Following processing, vehicles will be directed from the south end of the mall to route 53 south to 139 for further travel to shelter assignments as indicated on the map in Appendix 3.

B. RESPONSIBILITIES AND PROCEDURES

The Hanover Police will be responsible for traffic direction and flow. The Hanover Department of Public Works will assist the police with the placement of stanchions and directional signs and the roping of designated areas. The Department of Public Works, in coordination with the Police, will formulate required routing maps and file master copies in their department which will be available for immediate mass reproduction if this plan is implemented. Route directional signs will be prepared in advance by the Department of Public Works. State Department of Public Works assistance is available through Massachusetts Civil Defense Agency if required.

IV. RADIOLOGICAL MONITORING AND DECONTAMINATION

A. GENERAL

Four two-man decontamination teams will be trained and assigned for the processing procedure. As vehicles enter the mall area they will be directed into three lanes of traffic to a designated radiological monitoring area. One team will be assigned to each lane of traffic with a monitor on either side of the vehicle. The first step will entail monitoring of the vehicle, followed by the evacuees leaving their vehicles for individual monitoring. Vehicles and personnel not contaminated will continue in the three lane traffic area to the processing area. Personnel found to be contaminated will be re-directed to the south end of the mall to one of the two Health Clubs for decontamination. Upon entering, a shower will be given fully clothed, followed by clothing removal and placement of contaminated clothing in designated receptacles. A shower utilizing hot water and soap with thorough washing will then be accomplished. New clothing will then be issued and after dressing, personnel will receive final monitoring from the fourth radiological monitoring team. During the decontamination process any vehicles which were found to be contaminated will be thoroughly washed down by a fire truck stationed outside the Health Club. Following the total decontamination process, evacuees will be directed to the registration area for processing.

B. RESPONSIBILITIES

Planning and implementation of the above procedures will be the responsibility of the Hanover Civil Defense Radiological Officer (R.D.O.). He will insure that there are sufficient dosimeters available to issue to each person tasked to support the entire operation and that ten CD V-700 monitors are available for utilization by the radiological monitoring teams tasked in this plan in addition to those normally assigned to emergency vehicles.

The R.D.O. will also identify the requirement for additional clothing following the decontamination process and effect coordination with the Massachusetts Civil Defense Agency to insure availability on a rapid basis.

The R.D.O. will insure a sufficient pool of trained radiological monitors to support this plan.

V. EMERGENCY MEDICAL PROCEDURES

A. GENERAL

An emergency medical team will be stationed adjacent to the radiological monitoring team entrance point and will consist of Fire Department EMT's and registered nurses provided by the Hanover Visiting Nurse Association. An ambulance will

also be provided by the Fire Department. Emergency medical treatment will be rendered on the spot for minor cases. Any patients requiring hospitalization will be transported to South Shore Hospital in Weymouth. The back-up hospital will be Brockton Hospital.

The emergency medical team will also maintain a capability to respond to emergencies at the Hanover Shelter Facilities.

B. RESPONSIBILITIES

The Fire Department will provide EMT's and ambulance. The Visiting Nurse Association will provide nurses to supplement the team.

VI. SHELTERING

A. GENERAL

Hanover will maintain the capability to house 5,000 evacuees and to coordinate and plan with adjacent communities as outlined in Appendixes 2 and 3, the sheltering of up to an additional 44,000 evacuees.

The primary shelters in Hanover are the Junior High School, the Senior High School, and the Cedar Elementary School, which will be utilized in that order. If school is in session during implementation of this plan, students will be dismissed in accordance with the emergency dismissal plan. Sleeping facilities will be contained in the auditorium, gymnasium and hallways as much as possible. Cots and blankets must be provided from State resources. Feeding will be accomplished utilizing the assets of the school lunch facilities. The open field areas adjacent to the school's buildings will be utilized for parking and open parking will be utilized to insure emergency access. Social activities will be provided to the extent possible dependent on conditions.

B. RESPONSIBILITIES

The overall responsibility for sheltering of evacuees will be assigned to the Superintendent of Schools and will be implemented by the Principal or his designee at each school being utilized.

Additional responsibility will be assigned as follows:

Hanover Board of Health will inspect and insure cleanliness in sleeping areas and sanitation facilities and application of health codes in the preparation and serving of meals in the cafeteria will be adhered to.

The Fire Department will provide emergency medical treatment and insure application of fire safety codes.

The Department of Public Works will provide assistance in routing and parking of vehicles.

ANNEX B HANOVER MALL MAP

APPENDIX 1

A map of the Hanover Mall area designating:

1. Radiological Monitoring area
2. Emergency Medical Treatment area
3. Reception/Processing area
4. Decontamination area
5. Traffic routing in the Mall area

To be developed by the Civil Defense Director in coordination with Hanover Police, Fire, and DPW.

ANNEX B

APPENDIX 2

ADJACENT COMMUNITY PUBLIC SHELTER AVAILABLE TO THE TOWN OF HANOVER

Shelter Utilization Arranged for by Mutual Aid Agreements

COMMUNITY	SHELTER/S	CAPACITY	ROUTES TO SHELTER FROM HANOVER
Rockland	E. R. Stewart School Summer Street	431	Rte. 53S to Rte. 139. Rte. 139W to Rockland. Left on Concord St., to end. Left on Summer St., school on right ½ mi.
Rockland	High School Goddard Ave.	1,163	Rte. 53Sto Rte. 139. Rte. 139W to Rockland. right on Union St. through center, left on Goddard St. to school.
Rockland	Jefferson School Market Street	386 bl	Rte. 53S to Rte. 139. Rte. 139W to Rockland. Entrance road on right, one block west of the junction of Rtes. 139 and 123.
Rockland	Junior High School Taunton Avenue	544	Rte. 53S to Rte. 139, Rte. 139W to Rockland, right on Union St. through center left on either Taunton or Goddard Ave. High School & Jr. High share parking lot.
Rockland	McKinley School Union Street	350	Rte. 53S to Rte. 139W to Rockland. Right on Union Street through center. School on left.
Rockland	Memorial Park School Memorial Park	482	Rte. 53Sto Rte. 139. Rte. 139W to Rockland, right on Union to Taunton Ave., to end. Go left at slight angle and then straight. School on left approximately 100 yards.
subtotals	6 shelters	3356 spaces	(maximum)
Norwell	Starrell Elementary School, Main Street (#322)	300 min. 450 max.	Right on Rte. 123E to school. School is the first on right.
Norwell	Junior High School 334 Main Street	450 min. 675 max.	Right on Rte. 123 E to school. School is the second one on right.
Norwell	Csborn Elementary School, Main St.	300 min. 450 max.	Right on Rte. 123 E to school. School is the third school on Main St, but on left.
Norwell	Vinal Elementary School, Old Oaken Bucket Road	300 min. 450 max.	Right on Rte. 123 E to Norwell Center, left on Central St., right on Old Oaken bucket road.

COMMUNITY	SHELTER/S	CAPACITY	ROUTES TO SHELTER FROM HANOVER
Norwell	Grace Farrar Cole School, High St.	400 min. 600 max.	Left on Rte. 123W, North on Rte. 53 to Oak St. Left on Oak St., to High St., to school on right.
Norwell	Senior High School South Street	700 min. 1,000 max.	Right on Rte. 123E to South St., right on South St. to school, on right.
subtotals	6 shelters	minimum spaces 2,450 maximum spaces 3,625	
Hingham	High School 41 Pleasant St.	1,200	Mall Road, south to Mill St., east on Mill St. to South St. (Norwell). North o South St. to Rte.. 123,W on Rte. 123 to Rte. 53, North on Rte. 53 to Rte. 228 (Quenn Anne's Corner.) East on Rte. 228 to Pleasant St.., continue straight on Pleasant St. School on left.
Hingham	South Junior High School, 1103 Main St.	900	Mall Rd. South to Mill St., east on Mill St., to South St. (Norwell). North on South Street to Rte. 123 (Main St.), west on Rte. 123 to Rte. 53, Rte.. 53 North to Rte.. 228. East on Rte. 228, school on left, 3/4 mile from intersection.
Hingham	Foster School 55 Downer Avenue	765	Mall Road, south to Mill St.., east on Mill St. to South St. (norwell). North on South St. to Rte. 123 (Main St.). West on Rte. 123 to Rte. 53, Rte. 53 North to Rte. 228, east on Rte. 228 to Rte. 3A, north on Rte. 3A to Downer Ave. Left on Downer Ave. (Junction of Lincoln St, Broad Cove Rd. and Thaxter Rd.)
subtotals	3 shelters	2,865 spaces	
Quincy	Quincy High School, Coddington Street Vo-Tech School Coddington Street	3,000 5,500	Mall Road South to Mill St., east on Mill St. to South Street (Norwell). North on South St. to Rte. 123, west on Rte. 123 t Rte. 53. North on Rte. 53 to Junction of Rte. 53 and Rte. 228 (Queen Anne's Corner). Left to Rte. 3N on Rte. 3 to Furnace Brook Exit (Quincy) east on Furnace Brook Parkway, southern artery, right on southern artery to Coddington St., right on Coddington St. Schools on right, 500 yards.

(directions to the right are for both schools listed above)

COMMUNITY	SHELTER/S	CAPACITY	ROUTES TO SHELTER FROM HANOVER
Quincy	No. Quincy High School, 316 Hancock St.	2,400	Same Rte. to Rte. 3 as for Quincy High & Vo-Tech Schools. Rte. 3N to Granite Ave Exit (Milton). South on Granite Ave. to Squantum St., left (east) on Squantum St. to Hancock St. School at intersection of streets on left.
Quincy	Atlantic Junior High 86 Hollis Ave.	578	Same as No. Quincy High to Hancock St., Right on Hancock St. to Hollis Ave. to School on left.
Quincy	Broad Meadow Junior High School 50 Calvin Road	592	Same As Quincy High and Vo-Tech to southern Artery to junction of Coddington and Sea Streets. Left on Sea St. (east) to Moffat Rd. Right on Moffat Rd. to Calvin Road, left on Calvin Road (can see school)
Quincy	Central Junior High 1012 Hancock Street	792	Same as Quincy High School up to Furnace Brook Exit off Rte. 3. East on Furnace Brook Prkwy. to Hancock St., right on Hancock St. to school on left.
Quincy	Quincy Point Junior High, Lancaster St.	349	Same as Quincy High School to Southern Artery, continue south on southern artery to Mill Street. right on Mill st. to Washington St. and left on James St. to Lancaster St. Right on Lancaster St. to school.
Quincy	Stearling Junior High 444 Granite Street	544	Same as Quincy High to Furnace Brook Parkway exit. Leave Rte. east bound at traffic light, take right (Copeland St) to center, right on center st. to granite street. Left on Granite St. to school.
Quincy	American Legion Hall 160 Sea Street	200	Same as Broad Meadow, continue on Sea St. to Houghs Neck. Legion Hall on Sea St. next to Fire Station (left side).
Quincy	Quincy American Legion Post, 2 Mechanics St.	300	Same as Quincy High to Southern Artery. Continue South on Southern Artery to McGrath Highway, right on McGrath to Revere Rd., continue straight on Revere Rd to Mechanics St., post on left.
Quincy	Morresette American Legion Post 54 Miller Street	350	Rte. 3 N to Furnace Brook Pkwy. exit. Exit east and post is on left. first left after exit is Miller st.
subtotals	12 shelters	14,600 spaces	

COMMUNITY	SHELTER/S*	CAPACITY	ROUTES TO SHELTER FROM HANOVER
Weymouth	South High School 360 Pleasant St.	2250	Rte. 53 to Rte. 139, Rte. 139 W to Rte.58 to Rte. 18, Rte.18 N to So. Weymouth Square. Right on Pleasant St, one mile o left.
Weymouth	South Jr. High 280 Pleasant St.	1050	Rte. 53So. to Rte. 139W to Rte. 58 to Rte. 18, Rte. 18N to So. Weymouth Square. Right on Pleasant St., to intersection of Park Ave (Rte. 228), school on left.
Weymouth	East Junior High 89 Middle St.	1050	Rte. 53 to Rte. 139, Rte. 139W to Rte. 58 to Rte. 18. Rte. 18N to Middle St., to school on left, approx. 4½ mi. Behind the Town Hall.
Weymouth	Bicknell Jr. High 90 Sea Street	680	Rte. 53 S to Rte. 139, Rte. 139W to Rte.. 58 to Rte. 18, Rte. 18N to Rte. 53, North on Rte. 53 to Commercial St., Commercial St. to North St.., left on North St., to Norton Street, to Pearl St., continue straight on Pearl St. to sea st., left on Pearl St. to school.
Weymouth	North High School 1052 Commercial St.	1950	Rte. 53Sto Rte. 139, Rte. 139 W to Rte.58, Rte. riN to Rte. 18, 18 N to 53 N to Commerical St. (Weymouth Landing). Right (East) on Commercial St. to school, approx 4 mi. on right, just past Athletic Field.
Weymouth	Central Jr. High 300 Broad St.	900	Rte. 53 to Rte. 139W to Rte. 53. 53 N to Broad St.., right on Broad St. (east) to school, approx. 1 mile on left.
Weymouth	St. Francis Xaiver Church, Pleasant St. So Weymouth	600	Rte. 53 S to Rte. 139 W to Rte. 38, 58N to Rte. 18, 18N to Rte. 53, 53N, to Pleasant St., Right on Pleasant St (SO. Weymouth Square). School approximately 1 mile on left.
Weymouth	Holy Nativity Church 7 Nevin Rd, off Columbia	100	Rte. 53S to Rte. 139W to Rte. 58. 58N to Rte. 18, 18N to Rte. 53, 53N to Columbia St., left on Columbia St. Church on left 100 yards (intersection So. Shore Hosp.)
Weymouth	Old South Union Church, 250 Columbian St.	100	Rte. 53 to Rte. 139, West to Rte. 58, 58N to Rte. 18, 18 N to Columbian St., right on Columbian St. to Church, 1/3 mi. on left (intersection at So. Shore Hospital)

COMMUNITY	SHELTER/S	CAPACITY	SHELTER ROUTES FROM HANOVER
Weymouth	Baptist Church West St.	300	Rte. 53S to Rte. 139, West to Rte. 58, 58N to Rte. 18, continue North to West St left on West St. to church on left.
subtotals	10 shelters	8,980 spaces	
Braintree	High School 128 Town St.	2,000	Rte. 3N to Union St.., west on Union St., to Washington St.., left on Washington St. Right on Central Ave., right onFranklin, Left on access road to school.
Braintree	South Jr. High 232 Peach St.	900	Rte. 3N to Union St.., east on Union St., to Middle. Right on Middle St. to Liberty continue on Liberty St. to Peach St. Right on Peach St. to school.
Braintree	East Jr. High (Middle School) 305 River St.	1,000	Rte. 3N to Union St., east on Union St.to Cleveland Ave., left on Cleveland to Middle St., straight on to River St., right on River St. to school.
Braintree	Highland Elementary 144 Wildwood Ave.	200	Rte. 3N to Union St., east on Union St., to Middle St., Right on Middle to Liberty St., straight on Lieberty St. to Wildwood Ave., right on Wildwood to School.
Braintree	Hollis Elementary 482 Washington St.	200	Rte. #3N to Union St.., West on Union to Washington. Right on Washington St. to school building. it will be second school on right.
Braintree	Lakeside Elementary Lakeside Drive	200	Rte. 3N to Rte. 37, south on Rte. 37 to Five Corners, left on West St. to Walnut St.., left on Walnut to Lakeshore Drive, continue straight, school on right.
Braintree	Liberty Elementary 49 Proctor Rd.	200	Rte. 3N to Union St., east on Union St., to Middle St., right on Middle st. to Liberty St., continue straight on Liberty continue toProctor Rd.., right on Proctor to school.
Braintree	Morrison Elementary 15 Mayflower Rd.	400	Rte. 3N to Union St., east on Union to Middle St.., right on Middle to Liberty St. left on Liberty St., to Mayflower Rd., right on Mayflower Rd. to school.

COMMUNITY	SHELTER/S	CAPACITY	ROUTES TO SHELTER FROM HANOVER
Braintree	Monatiquot Elementary 25 Brow Avenue	200	Rte. 3N to Union St., West on Union to Washington St., right on Washington St. t Academy St., left on Academy to Brow Ave. right on Brow Ave. to School..
Braintree	Penniman Elementary 71 Cleveland Ave.	200	Rte. 3N to Union St., east on Union to Cleveland Ave. Left on Cleveland Ave., school on the left.
Braintree	Ross Elementary 20 Hayward St.	200	Rte. 3N to Union St., west on Union to Washington, right on Washington St.. to Elm St. Right on Elm St. to Hayward St. continue straight on to Hayward St., to school on left.
Braintree	Torrey Elementary 90 Pond St.	200	Rte. 3N to Rte. 37 South on 37 to Pond St.., right on Pond St., school on left.
Braintree	Watson Elementary 197 Quincy Ave.	150	Rte. 3N to Union St., east on Union to Wey mouth Landing, left on Quincy Ave. to school.
subtotals	13 shelters	6,050 spaces	
Abington	Center School Thaxter Ave.	295	Rte. 53 to Rte. 139, West on 139 to Rte 123, west on 123 to Abington Center, take left off 123 on Dunbar St. to Thaxter Ave.
Abington	Abington Jr. High Ralph Hamlin Lane	514	53S. to Rte. 139, west on 139 to Rte. 58, south on 58, right at first fork, adams street to Washington St.,continue on Washington to Ralph Hamlin Lane, left on Hamlin Lane to school.
Abington	Frolio School Washington St.	479	Rte. 53S to Rtel 139, west to 139 to Rte. 58, south on 58, right at first fork, Adams St. to Washington St. school on left just before Hamlin Lane..
Abington	High School Bedford St.	894	Rte. 53 to Rte. 139, west on 139 to Rte. 1 South on 18 to traffic light, take right (Alamo Restaurant(at intersection)
Abington	North School Adams St.	260	Rte. 53 to Rte. 139, 139 west to Rte. 58, south on Rte. 58 to first fork in road (Adams St.) school. is at fork in road.
Abington	Woodsdale School Chestnut St.	336	Rte. 53 so to rte. 139, 139 w to Chestnut St., so on CHestnut St. to school on left

COMMUNITY	SHELTER/S	CAPACITY	ROUTES TO SHELTER FROM HANOVER
Abington	St. Bridgets School Plymouth St. (Rte. 5*)	236	Rte.. 53S to 139, 139 west to Rte. 58, south on 58 about $1\frac{1}{2}$ miles on right.
SUBTOTALS	7 SHELTERS	3014 spaces	
Randolph	High School Memorial Pkwy.	2400	53 So, west on Rte. 139 to Randolph Center (Rtes. 28 &139), first left after center from Rte. 139, Memorial Pkwy
Randolph	JFK Jr. High Hurley Drive	300	Rte.. 53 so, west on Rte.. 139 to Holbroo and Randolph Line, cross Railroad tracks take first right after tracks, Mill St., turn right on Hurley Drive (6th st on right)
Randolph	North Junior High High Street	350	Rte. 53, west on Rte. 139 to Randolph Center, continue north on Rte. 28 to West st., left on West to Lafayette, right on Lafayette St., to High St., nort on High St to school on right hand side.
Randolph	Martin E. Young Lou Courtney Drive	250	Rte. 53, south, west on Rte. 139 to Randolph line, cross railroad tracks take left on Center street, to end, right on So. Main St., to Lou Courtney Drive,turn right, school at end of drive.
Randolph	E. G. Lyons School Vesey Road	250	Rte. 53 so, to Rte. 139 west to Randolph Line, cross railroad tracks take Mill St. right to north street, right on North St. to Liberty St., left on Liberty st. to Versey Rd., right on Versey Rd.
Randolph	Donovan School Reed Street	250	Rte. 53So to Rte. 139, Rte. 139 west to Rte. 28, 28N to Reed St.., West on Reed to School..
Randolph	C. G. Devin School Old Street	150	Rte. 53 s, to Rte. 139, Rte. 139 west to Rte. 28, north on 28 to Old St., left on Old St.. to school
Randolph	Stetson School so. Main St..	180	Rte. 53 S, to Rte. 139, Rte. 139 west to Rte. 28, south on 28 (So. Main St.) $\frac{1}{2}$ mi. on right..
Randolph	Tower Hill School Adams Street	185	Rte. 53 so to Rte. 139, 139 west to Randolph center, continue on 139 and 28 to Warren S (139), west on Warren St., to Adams st. left on adams to school

COMMUNITY	SHELTER/S	CAPACITY	ROUTES TO SHELTER FROM HANOVER
Randolph	McNeil School Fencourt Ave.	185	Rte. 53 to Rte. 139, west on 139 to Randolph Center, continue on 139 to Fencourt Ave., second left after crossing railroad tracks at Randolph line
Randolph	Congregational Church So. Main St.	275	Rte. 53 south to Rte. 139, west on 139 to randolph center, church in center on left side, of the junction of rtes. 28 and 139.
Randolph	Trinity Episcopal Church 120 No. Main St.	360	Rte. 53 to 139, west on 139 through Randolph center (Rtes., 28 and 139) 100 yards on left is the church.
subtotals	12 shelters	5135 spaces	

TOTAL SPACES AVAILABLE TO HANOVER:

69 shelters 47,625 spaces

ANNEX B
APPENDIX 3

HANOVER DESIGNATED SHELTERS AND ROUTING

A map of Hanover designating:

1. Routes to shelter areas
2. Traffic control aids required along the route
3. Personnel assignments at traffic control points

To be developed by Hanover DPW in coordination with Hanover Police.

ANNEX B
APPENDIX 4

ROUTE MAPS TO ADJACENT
COMMUNITY SHELTERS

A map designating prescribed routes from the Hanover Mall to each adjacent community providing shelter areas. This will be developed as a master map capable of rapid reproduction and filed with Hanover DPW.

To be developed by Hanover DPW in coordination with Massachusetts DPW.

ANNEX C PROTECTIVE RESPONSE--FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. WATER

All potable water supplies in Hanover are derived from underground wells, and therefore will not be subjected to contamination.

B. MILK

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. OTHER FOODSTUFFS

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

A. There are no dairy farms or sources of stored feed in Hanover.

B. Commercial and large produce farms are listed below:

1.	Frank Cervelli	826-2706
2.	Red Cider Mill	826-6077
3.	Push Cart Farm	749-4594

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;
2. Verify readings of personal dosimeters worn by emergency workers.
3. Monitor evacuees arriving in the Hanover reception area.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area II Headquarters.
4. Supporting monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to the registration area, and other areas where emergency workers may be in place for lengthy periods.
2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area II Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, through his Radiological Defense Officer.

1. Maintaining adequate inventories of both high and low range personal dosimeters;
2. Distributing dosimeters during an emergency;
3. Advising Fire, Police and other personnel of exposure guidelines for emergency workers;
4. Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1. Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Emergency Operation Center located in the Town Hall.

2. Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Town Hall Emergency Operations Center to pick up
(1) high level and (1) low level dosimeter;

3. The Radiological Defense Officer will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;

4. The Radiological Defense Officer will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan and Annex B, paragraph 4 of this plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Hanover Civil Defense Director, following coordination with the Selectmen, is responsible for issuing public announcements relative to the occurrance of an incident at the Pilgrim I Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Pilgrim I Nuclear Power Station the Hanover Civil Defense Director will contact Radio Stations and other media as outlined in Annex A to issue appropriate releases. Such releases should be consistent with information received from Area II Headquarters, Massachusetts Civil Defense Agency.

Massachusetts Civil Defense Agency utilizing its Emergency Broadcasting System (EBS) will provide initial and timely updated information concerning any emergency nuclear incident at Pilgrim I NPS. Instructions pertaining to local communities should be issued by the local Civil Defense Director.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary to support reception of evacuees from Plymouth. Those included in this Annex are:

1) Public Safety - the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2) Social Services - the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services - includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Pilgrim I Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in reception areas and in directing traffic to reception center(s), and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at shelter areas.

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social assistance. See Annex B, Chapter VI of this plan.

C. FIRE AND EMERGENCY MEDICAL SERVICES

The Hanover Fire Chief will be primarily responsible for fire protection, emergency medical services and decontamination of vehicles support of evacuees at both reception and sheltering areas. He will undertake appropriate action upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that insure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Pilgrim I area.

ANNEX J FUTURE TRAINING AND REQUIREMENTS

I. TRAINING

A. Establish a training course for a minimum of 20 radiological monitors and from this course provide advance training for four radiological defense officers. Insure that capability is kept current through refresher courses.

B. Provide initial training for reception/processing teams.

C. Request Red Cross Assistance to train shelter personnel.

II. FUTURE REQUIREMENTS

A. Provide required traffic signs and master copies of:

1. Route maps to Hanover shelters
2. Route maps to shelters in adjacent communities
3. Registration forms

B. Obtain required number of radiological monitoring sets (CD V-700) and dosimeters with battery charger.

C. Determine source availability for immediate provision of additional clothing.

D. Arrange for provisions of cots and blankets from State or Red Cross assets for sheltered evacuees.

E. Provide identification tags for emergency workers supporting this plan.

F. Make arrangements for duplicating master route and instruction copies following implementation of this plan.

TOWN OF KINGSTON

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials, agencies and departments of the Town of Kingston with a basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Kingston is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during Civil Defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a nuclear power station, and the need for quick action on the part of local officials, a recommendation from the

Commonwealth to Kingston Police (via State Police in Middleboro) and/or to Kingston Fire (via NAWAS--See Section VI.6. below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local state of emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Pilgrim I is located in the Town of Plymouth, Massachusetts, in Plymouth County on the west shore of Cape Cod Bay. The site contains about 528 acres owned by the Boston Edison Company. The land is bounded on the north, south and west by privately-owned land, and on the east by Cape Cod Bay. Site coordinates are approximately 41° 55" north latitude and 70° 35" west longitude.
2. The Town of Kingston, the center of which is approximately nine and one-half (9-1/2) miles NNW of Pilgrim I N.P.S. could be affected by a major accident at Pilgrim 1 N.P.S.

   Kingston is situated on the west shore of Plymouth Harbor and Kingston Bay. Towns adjoining include Duxbury, Pembroke, Plympton, Carver and Plymouth.

   Principal highways are Routes 3, 3A and 53 running north and south and Routes 27 and 106 running west.
3. The population of Kingston is approximately 7500. The Town is the site of Silver Lake Regional High School - Kingston Campus (with approximately 1100 students), Kingston Elementary and Intermediate Schools (Approximately 875 students) and Sacred Heart Pre-Primary, Elementary and Senior High Schools (1000 students). Rocky Nook section (on Kingston

Bay) has long standing summer residential development.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Kingston lies with the emergency forces of the Town. The Board of Selectmen have designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.
2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.
3. The Town will receive prompt notification of any situation at the N.P.S. which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts Plan for Radiological Emergencies, and received by the Town as indicated in Annex A, WARNING AND NOTIFICATION.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required.
2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action.
3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and
4. Provide for the essential needs of citizens in the event protective action involves evacuation

or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;
2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;
3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to restrict immediately the consumption of freshly harvested produce which could have been contaminated and of milk, which may have become contaminated through ingestion by dairy cattle or contaminated pasturage; and,
4. Soil can become contaminated from particulates, from passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation. Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling access to affected areas
4. Pasturage and dairy animal feed control.
   Special note: Kingston has no commercial dairy farms; any ownership of dairy cattle would be for private or family use.
5. Control of milk, other foodstuffs and water
6. Administration of radioprotective drugs

D. Planning Zones

For planning purposes, the area around Pilgrim I NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true north, and sectors are designated alphabetically, in a clockwise direction. Parts of Kingston lie in sectors N and P (Neither "I" nor "O" are used as sector designators).

E. Emergency Operations

Emergency operations will be conducted in accordance with the Kingston Basic Operations Plan as supplemented by this Plan. The Kingston Fire Station on Maple Street will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the basic operations plan. These responsibilities and other peculiar to the Radiological Emergency Response Plan are reflected in Exhibit 1 p. , "Radiological Emergency Responsibilities and Functions".

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Kingston Police direct from State Police in Middleboro or Kingston Fire also from State Police in Middleboro (via scanner equipment) of a "Code Yellow" message, the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A -- WARNING AND NOTIFICATION;
2. Such officials will assure the continued availability of required disaster response for as long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency Area II in Bridgewater.

B. Alert Level

A particular radiological emergency may or may not involve an alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A -- WARNING AND NOTIFICATION should be carried out.

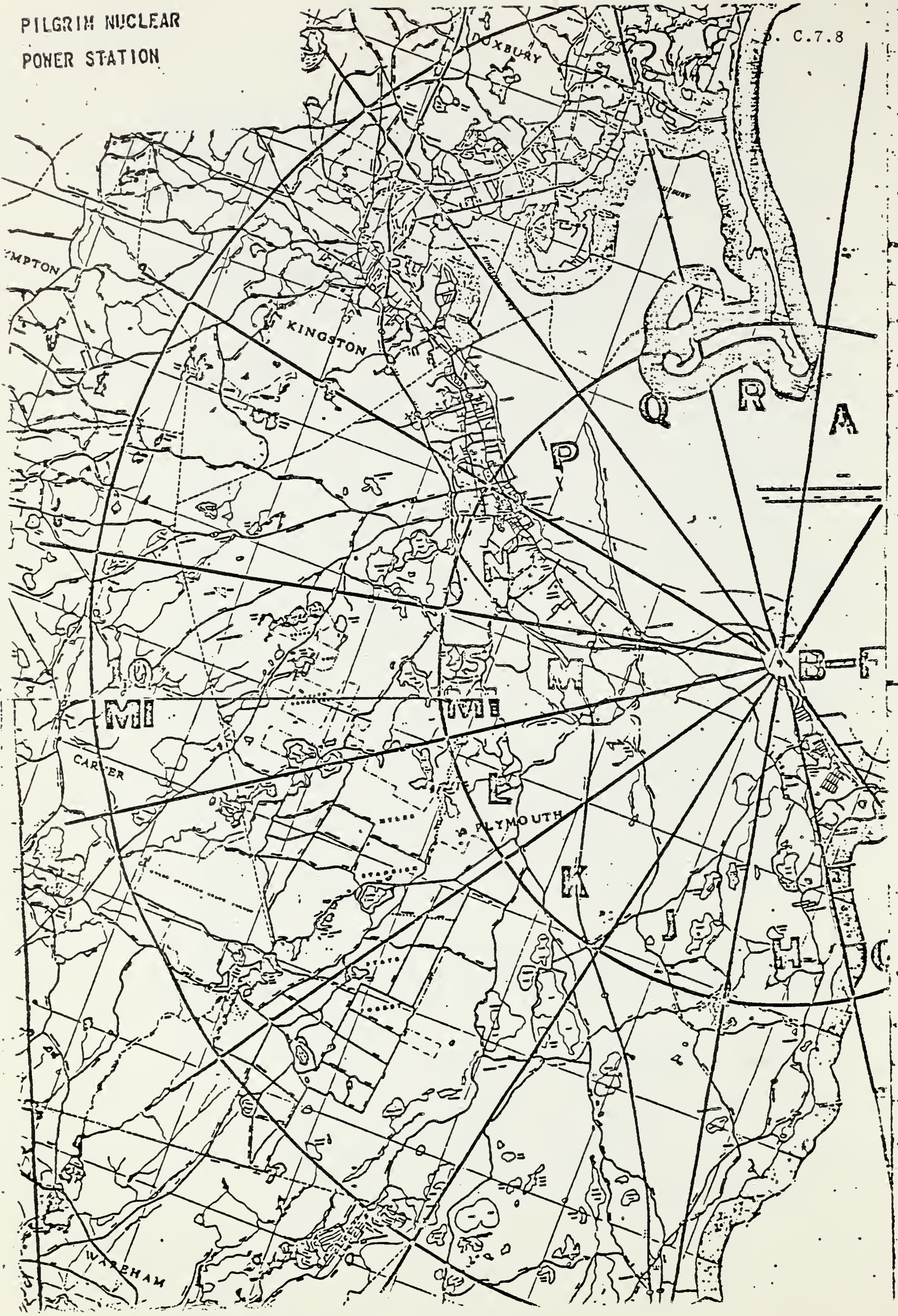
C. Emergency Operations Level

Upon receipt of a Code Yellow followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, emergency operations activities will commence immediately in addition to those activities covered in the attached Annexes for general action, protective actions and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center
2. Activation of all required Emergency Response Units.
3. Invoking of mutual aid arrangements with emphasis on assistance from Pembroke and Halifax.
4. Requesting State and/or Federal assistance in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its Radiological Emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and
6. The taking of all other steps necessary to minimize loss of life, injuries and damage to property.

PILGRIM NUCLEAR POWER STATION



C.7.8

DUXBURY
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WAREHAM

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three phases: 1) receipt of initial warning from the State; 2) notification of involved local Town Officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action which may be taken by the public.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is responsibility of Kingston Police Department using 2-way radio which is in 24-hour operation. There will be the additional monitoring by the Kingston Fire Department using scanner on 24 hour coverage. Warning will come to the Police and Fire Departments via State Police in Middleboro and/or NAWAS (National Warning System). Kingston Fire Department will acknowledge by telephone.

B. Notification of Local Officials

Local Police and/or Fire Departments will begin a simultaneous notification as follows:

1. Local Police will initiate signal for major incident notification procedure.
2. Local Police and/or Fire will notify the following agencies and officials by telephone:

   Civil Defense

   Chairman, Board of Selectmen

   Highway Department

   Superintendent of Schools - Silver Lake Regional School District

   Kingston Elementary School

   Sacred Heart High, Elementary and Pre-primary Schools

Board of Health
Harbormaster
The official notification call list appears on the following page.

OFFICIAL NOTIFICATION CALL LIST

Civil Defense - Director	585-2743	(home)
Civil Defense - Deputy Director	746-6720	(business)
	585-3574	(home)
Board of Selectmen, Chairman	585-4445	(business)
	585-2025	(home)
Highway Department, Superintendent	585-2735	(office)
	585-3243	(home)
Silver Lake Regional School - Adminis.	585-4313	(office)
Kingston Elementary School	585-4500	(office)
Sacred Heart High School	746-2374	(office)
Sacred Heart Elementary School	746-2113	(office)
Sacred Heart Pre-Primary School	746-0350	(office)
Board of Health	585-6055	(office)
Board of Health (Health Agent)	585-3661	(home)
Harbormaster	746-2429	(home)

3. Upon establishment of emergency operations at the Kingston Fire Station, the local Civil Defense Director or a designee will determine validate notification, and where necessary, assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be combined effort of Police and Fire Department teams, dispatched on established routes throughout Kingston, to conduct public address, loud-hailer and door-to-door notification. Assignments and routes appear as Attachment 1 to this Annex.
2. Radio station WPLM in Plymouth and WATD in Marshfield plus Channel 4 (WBZ) will receive public warning messages from both State Civil Defense and Local Civil Defense. Additionally other radio and TV stations received locally will be carrying emergency public information.
3. It shall be the duty of the Harbormaster to institute to boats people along the Jones River, at the Town Landing and vicinity of Kingston Bay.

NOTE: WPLM and WATD radio stations are not operating on a 24 hour basis. The hours between midnight and 6:00 A.M. at present are not available for emergency broadcast information.

WARNING NOTIFICATION
ROUTE LISTING
(Streets Within Ten Mile Zone)

ATTACHMENT 1

Unit 1 Police Department Personnel

Main Street-from Plymouth line to Howland's Lane
Howland's Lane
Braintree Avenue
Sunset Street
East Street
Rocky Nook Avenue
Cole Avenue
Delano Avenue
West Avenue
Cedar Street
Shore Drive
Page Avenue
Holmes Avenue

Unit 2 Police Department Personnel
Boundary Street
Crescent Street
Kennedy Lane
Smiths Lane (and side streets)
Basler's Lane
Baker Avenue
Prospect Street and Prospect Court
Mayflower Avenue
Pleasant Street
Thomas Street
Second Brook
Brook Street

Unit 3	Police Department Personnel
	Main Street from Howland's Lane to Summer Street Intersection
	May Avenue
	Spring Street
	Elder Street
	Bradford Avenue
	Riverview Avenue
	Center Hill Road
	Riverside Drive
	Chestnut Street
	Pearl Street
	Diamond Street
	Hillcrest Road
	Landing Road to Maple Street
Unit 4	Fire Department Personnel
	Main Street from Summer Street Intersection to Tura's Corner
	Evergreen Street
	Shirley Avenue
	Maple Avenue
	Green Street
	Center Street
	Cross Street
	Elm Street
	Indian Pond Road
	Sylvia Place Road
Unit 5	Fire Department Personnel
	Summer Street to Duxbury Line
	Tarkiln
	Treetop
	Bay Path
	Tremont Street
	Brewster Road
	Foster's Lane
	Maple Street
	Wright Court
	River Street

Unit 5 (continued)	Jones River Drive Marsh Road Loring Avenue Bay Farm Road Park Street
Unit 6	Kingston CB Pool Winthrop Street Brookdale Avenue Pembroke Street to Joseph Street Grove Street (for 1/2 miles) Wapping Road (as far as Ring Road) Brooking's Drive Nelson Street South Street

This six unit routing is based upon present (Oct.79) personnel and equipment availability. The warning operation combines police and fire departments using five vehicles equipped with public address systems. The sixth route would be manned from Kingston CB radio pool.

The first five units have routes within the ten mile zone closer to Pilgrim 1 Nuclear Power Station. The sixth unit would cover town areas on the outer fringe of the ten mile zone.

Sixth unit warning will be by loud hailer and house to house personal contact as necessary.

Sixth unit (with additional units as may become available from combined sources) will serve as back up for primary warning effort.

ANNEX B PROTECTIVE RESPONSE-EVACUATION, SHELTER AND ACCESS CONTROL

I. INTRODUCTION

Evacuation, shelter and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon protective action guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include approximately 2/3 of the Town of Kingston, it is more likely that protective actions would be recommended for those areas nearest the power station (i.e. the Rocky Nook section).

Plans involve the potential evacuation of approximately 2/3 of the Kingston population to Silver Lake Regional High School - Kingston and the Silver Lake Regional Junior High School in Pembroke if needed. The locations of the two schools would provide direct movement northwest away from the nuclear plant for the potentially affected 10 mile zone of the Town of Kingston which falls within Sectors N and P.

Shelter, access control and evacuation actions are covered separately below.

II. SHELTER

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the local Civil Defense Director should determine what mix of public and private shelter is advisable.
2. Public warning messages will be selected or formulated, and dispersed by the local Civil Defense Director, in accordance with Annex A.
3. The local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area II Headquarters in South Bridgewater, for updated advice on length of shelter period, or further necessary protective actions.

III. ACCESS CONTROL

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the

Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.
3. Responsibility for carrying out access control actions rest primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.
4. Access control points will be established as necessary, depending upon the affected area. Key points are:

South	Main Street at Plymouth Line
	Main Street at Route 3
Southwest	Route 80 at Sacred Heart High School
	Elm Street at Plympton Line
West	Route 106 at Plympton Line
	Lake Street at West Street
Northwest	Route 27 at Pembroke Line
	Route 27 at Station Street
North	Route 53 at Duxbury Line
	Route 3 exit at Route 3A
East	Route 3A at Duxbury Line
	Bay Road at Duxbury Line

IV. EVACUATION

A. General

Evacuation involved notification to the public (Annex A) living within an affected are to leave their homes, business or recreation area and report to Silver Lake High School registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.
2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and in their absence, initiate necessary evacuation measures.
3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.
4. The responsibility for traffic control lies with the Police Department with support from the Highway Department. Additional support will be available through Civil Defense.
5. Evacuation of residents will be by the following routes:
    A. West on Main Street to Pembroke Street (Route 27) to Silver Lake Regional High School.
    B. West on Main Street to Wapping Road (Route 106) to West Street North to Lake Street to Silver Lake Regional High School.
    C. West on Main Street to Pembroke Street (Route 27) to Grove Street to Lake Street and North to Silver Lake Regional High School.
    D. A is principal route leaving B and C as alternative or additional routes if circumstances of congestion or obstruction demand.
6. The Silver Lake Regional High School - Kingston through Silver Lake Regional School Administration shall be responsible for receiving evacuees.
7. The Silver Lake Regional School District Administration shall be responsible for the evacuation of students and faculty from Kingston

Elementary School, if in session. School buses for transport.

8. The Sacred Heart School Administration, likewise shall be responsible for its students and faculty and be given the option of either evacuation to Silver Lake Regional High School or remaining in place utilizing the School's fall-out protected areas.
   - A. The evacuation route for Sacred Heart School is north on Route 80, east on Elm Street to Main Street and West to Pembroke Street (Route 27) and Silver Lake Regional High School.
   - B. School buses for transport.

V. RECEPTION CAPABILITY

Silver Lake Regional High School - Kingston Campus- corner of Lake and Pembroke Streets - has potential capacity for a minimum of 2500 evacuees in shelter. Likewise the school has a capability for any mass feeding program as required for an emergency situation as outlined in this Emergency Response Plan. In addition to support services as provided by the American Red Cross (Old Colony Chapter) the custodial staff and faculty members as qualified will assist in maintaining order. Additional support personnel will be drawn from a pool of registered nurses residing in Kingston and coordinated by Kingston Civil Defense Shelter Officer.

The large athletic field situated southeast of Silver Lake Regional High School will provide parking space for a minimum of 900 vehicles. The field has direct access from Pembroke Street (Route 27) and has good layout for Security Patrol.

SPECIAL NOTE: In consideration of the fact that the 10-mile zone outer limit falls within Kingston, this evacuation and shelter plan does permit Kingston to host its own population and only if an overcrowding develops in the shelter would it be necessary to utilize space in the neighboring town of Pembroke.

ANNEX C PROTECTIVE RESPONSE - FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion of cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time. Although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. A. Water

Kingston derives water from artesian wells. Storage in enclosed tank only.

B. Milk

There are no dairy farms in the Town of Kingston.

C. Other Foodstuffs

There are several large acreage commercial cranberry bogs in Kingston. In addition, there are two commercial blueberry plantations.

It shall be the responsibility of the Kingston Board of Health to maintain awareness of the commercial growers of cranberries and blueberries and assist in disseminating public information relative to necessary actions.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities.
2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring.
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area II Headquarters.
4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy

periods.

2. The Civil Defense Director will maintain logs of monitoring activity, and periodically report to Massachusetts Civil Defense Agency Area II Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1. Maintaining adequate inventories of both high and low range personal dosimeters.
2. Distributing dosimeters during an emergency;
3. Advising fire, police and other personnel of exposure guidelines for emergency workers.
4. Assisting state authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Kingston Fire Station.
2. Chiefs of services will direct all emergency workers assigned to potentially hazardous areas to the Fire Station, to pick up (1) high level and (1) low level dosimeter.
3. The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CS V-700) to validate dosimeter readings.
4. The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

IV. DECONTAMINATION CENTER

1. Radiological decontamination (i.e. showers, storage of radioactive contaminated waste material) will be available at Silver Lake Regional High School - Kingston Campus.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Kingston Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Pilgrim I Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Pilgrim I Nuclear Power Station, the Kingston Civil Defense Director, or his designee, will contact radio stations WPLM in Plymouth, WATD in Marshfield and WBZ-TV, Channel 4 in Boston to issue approrpriate releases. Such releases should be consistent with information received from Area II Headquarters Massachusetts Civil Defense Agency.

TELEPHONES:

WPLM	746-1390 or 2824
WATD	837-1166 or 1169
WBZ-TV	1-787-7000

The following standard releases have been prepared to facilitate the release of public information during an emergency.

NEWS RELEASE #1

An alert has been declared by Boston Edison for its Pilgrim I Nuclear Power Station in Plymouth, Massachusetts. This alert has resulted because of an emergency condition at the plant site. NO radiation hazard exists and NO danger is expected outside the plant boundary. Stay tuned to this radio/tv station for further information. Do not go to the plant area. REPEAT -- DO NOT GO TO THE PLANT -- DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Boston Edison for its Pilgrim I Nuclear Power Station in Plymouth, Massachusetts. There has been a release of radioactive material at the plant site. NO DANGER IS EXPECTED OUTSIDE THE PLANT BOUNDARY. DO NOT CALL OR GO TO THE PLANT AREA. LOCAL AND STATE PUBLIC HEALTH AND CIVIL DEFENSE OFFICIALS WILL ADVISE IF OTHER STEPS ARE REQUIRED. REPEAT ----- THIS IS AN EMERGENCY ALERT --- STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Boston Edison for its Pilgrim I Nuclear Power Station in Plymouth, Massachusetts. If a public hazard develops you will be notified via this radio/tv station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Kingston Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety -- the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.
2) Social Services -- the provision of food, shelter, clothing and routine medical services for evacuees.
3) Emergency Medical Services -- includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public safety and emergency medical services will be provided in the context of the Massachusetts Civil Defense Agency's area plan for towns in the vicinity of Pilgrim I Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard or other State resources. Requests for state assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at the major reception area, Silver Lake Regional High School in Kingston and to Silver Lake Regional Junior High School in Pembroke if this latter shelter becomes necessary for use.

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Kingston Fire Department will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will be notified to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with Massachusetts Civil Defense Agency Area II Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating and the conduct of all tests and exercises.

B. Other Agencies

Other agencies and departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the area of Boston Edison's Pilgrim I Nuclear Power Station.

TOWN OF LAKEVILLE

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Lakeville with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could effect the health and safety of the public.

II. AUTHORITY

a. The Town of Lakeville is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Lakeville CD (via NAWAS -- Section VI below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Plymouth is in the County of Plymouth, and located in Southeastern Massachusetts. It is bordered on the South by the Towns of Wareham and Bourne, on

the West by the Town of Carver, on the North by the Town of Kingston, and on the East by the Coastal Waters of Cape Cod Bay. There are three (3) main highways passing through the Town. Routes 3 and 3A running parallel in a North and South direction, and Route 44 running East and West.

2. The Pilgrim Nuclear Power Station (PNPS) is a single unit station rated at 1998 Mx (th) and located on the western shore of Cape Cod Bay approximately five miles from Plymouth Center. The site contains approximately 528 acres owned by the Boston Edison Company. The nearest residences outside the site boundaries are approximately 2000 feet from the reactor to the northwest and southeast. The site boundary is posted and a security fence erected around the immediate situation area.

3. The Town of Lakeville, a westerly segment, which is approximately 19 miles from the Pilgrim I NPS, could be within the injestion pathway following a major incident at the Pilgrim I NPS. This could result in recommendations that protective actions be taken in Lakeville with respect to food stuffs, especially dairy cattle and milk.

   The Mass. Civil Defense Agency has designated Lakeville the primary mission of processing all evacuees from Plymouth in the southwesterly segments lettered K and J as designated on the Pilgrim I NPS Map (Attachment I). This will involve Radiological Monitoring and decontamination, if necessary, followed by registration and processing of approximately 12,000 Plymouth evacuees during absolute peak seasons.

   Lakeville is capable of sheltering a maximum of 5,000 evacuees within the town. Mutual aid agreements will be formulated with surrounding communitees to shelter the remaining evacuees following registration and processing in Lakeville.

   Principal highways are Route 18, running North and South; Route 105 running North and South; Route 44, in the northern end of town, running North and South; Route 140, a limited access highway, running North and South.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Lakeville lies with the emergency forces of the Town.

The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. Lakeville will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in either Plymouth or Lakeville. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;
2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;
3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,
4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;
2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Pilgrim I NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Lakeville lies primarily in Section "M", outside of the 10 mile radius but within the ingestion pathway.

E. Emergency Operations

Emergency operations will be conducted in accordance with the Lakeville Basic Operations Plan as supplemented by this Plan. The Town Office Building, Bedford Street, will be utilized as the Emergency Operating Center.

IV. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operation Plan. These responsibilities, and others peculiar to the Radiological Emergency Response Plan are reflected in Annex "D", Radiological Emergency Responsibilities and Functions.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Lakeville CD of a "CODE YELLOW" message, either through Whitman Fire (National Attack Warning System) or via State Civil Defense Area II Bridgewater, the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex "A" -- Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Bridgewater.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex "A" -- Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

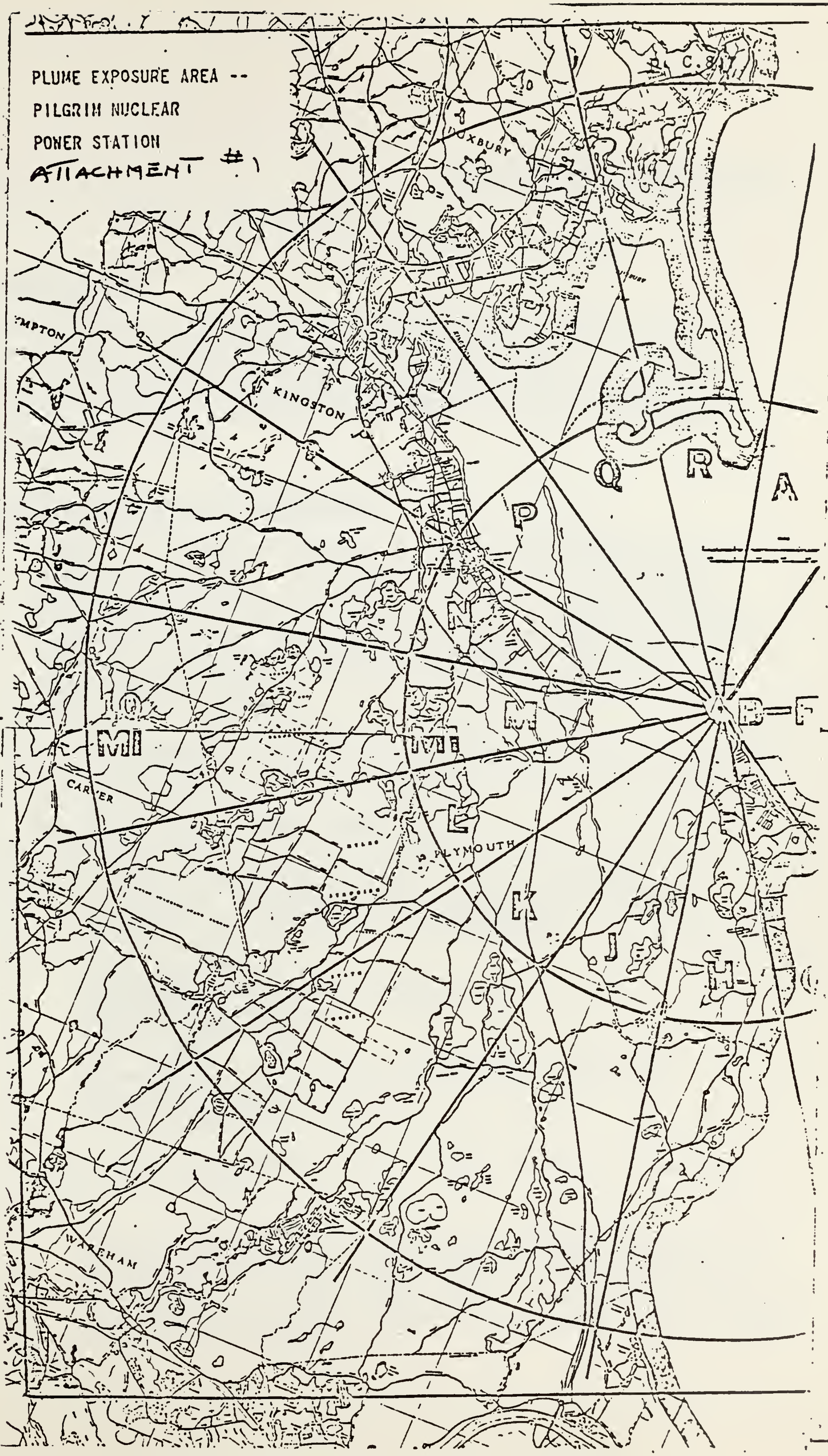
1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;
4. Requesting State and/or Federal assistance, in

accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and
6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

PLUME EXPOSURE AREA --
PILGRIM NUCLEAR
POWER STATION

ATTACHMENT #1


C.8
XBURY
MPTON
KINGSTON
Q
R
A
P
N
M
B
F
M
M
CARVER
L
PLYMOUTH
K
J
H
WAREHAM

ANNEX "A" WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State; 2) notification of involved local officials of a standby, alert or emergency operations condition; and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Police Department. Initial warning will come from Middleboro Police via Plymouth County Police Network. Alert notification will be made to the Lakeville Police Dispatcher during duty hours, and to patroling police cruisers and Lakeville Fire Department (947-3131) after hours. Back-up and validation messages will be received as follows:

1. Whitman Fire Department to Lakeville Fire Department.
2. Massachusetts Civil Defense to local Civil Defense.

B. Notification of Local Officials

1. Local Police will notify the Fire Department.
2. Local Fire Department will notify the following agencies and officials by telephone:

   Civil Defense
   Chairman, Board of Selectmen
   Highway Department
   School Department
   Red Cross
   Freetown-Lakeville Regional School Department
   Board of Health
   Hayward Ambulance Service

The official notification call list appears on Appendix #1 of this Annex.

3. Upon establishment of emergency operations at the Town Office Building the local Civil Defense Director or a designee will insure that initial notification is validated by calling Middleboro State Police dispatcher and, where necessary, assume responsibility for completion of notification.

C. Public Notification

1. Radio Stations WBZ Boston, and WEPE and WRLM Taunton will receive public warning messages from both State Civil Defense and local Civil Defense and provide instruction to the general public.

2. Written instruction and information will be published in the New Bedford Standard Times daily newspaper.

3. The local Fire Department PA system will function as back-up to Police Department vehicles for door-to-door and loud-hailer notification.

4. The primary mechanism for emergency public notification will be police teams, dispatched on established routes throughout Lakeville to conduct a door-to-door and loud-hailer notification. Cruiser assignments and routes appear as Appendix #2 to this Annex.

ANNEX "A" APPENDIX #1 ROSTER OF KEY OFFICIALS

	Office	Home
BOARD OF SELECTMEN:		
Selectman Donald F. Rosen	947-3400	947-2783
Selectman Richard A. Fickert	947-3400	947-0274
Selectman F. James Healey	947-3400	947-3445
POLICE CHIEF:		
John J. Mullen, Jr.	947-0046	
FIRE CHIEF:		
Robert F. Johnson	947-4121	947-2688
HIGHWAY DEPARTMENT:		
Robert F. Johnson	947-9521	947-2688
BOARD OF HEALTH NURSE:		
Pauline T. Bock	947-3400	947-9279
SUPERINTENDENT OF SCHOOLS:	947-2663	
ASSAWOMPSET SCHOOL PRINCIPAL:		
Thomas J. Venice	947-1403	947-6173
APPONEQUET HIGH SCHOOL PRINCIPAL:		
Joseph C. Simas, Jr.	947-2660	947-3869
AUSTIN MIDDLE SCHOOL PRINCIPAL:		
Richard A. Pazasis	947-7829	
RED CROSS:		
Eileen Griffin	586-4790	
CIVIL DEFENSE DIRECTOR:		
Richard L. Buttermore	947-4121	947-4077

ANNEX A APPENDIX #2 PUBLIC NOTIFICATION

Cruiser Assignments

To be developed by the Police Department at a later date.

ANNEX "B" RECEPTION - PROCESSING - AND SHELTERING

I. Introduction

The Mass. Department of Public Health through the Mass. Civil Defense Agency may direct evacuating portions or all of the 10 mile radius surrounding the Pilgrim I NPS to protect against the direct effects of a gaseous or liquid radiological release.

In the event that Sectors K and J are evacuated personnel from Plymouth will proceed to Lakeville for processing, relocation and shelter assignment. Evacuation may be directed for those areas nearest the power station, i.e. up to a three mile radius, five mile radius, or any other distance dependent on protective actions required.

Evacuation action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

Reception, processing and sheltering actions are covered separately below.

II. Reception

A. General

Plymouth evacuees will proceed to Route 58 South, to Route 28 West, to Route 18 South to Lakeville Tennis Club for radiological monitoring and emergency medical treatment if required. Personnel requiring decontamination will be decontaminated at the Lakeville Tennis Club. All others will proceed to the registration center at Assawompset School.

Personnel requiring medical treatment will be attended by the medical team, comprised of the Lakeville EMT's and Visiting Nurse Association.

All evacuees will be registered, processed and given shelter assignments at an area clearly designated in the School.

Personnel requiring medical attention or decontamination will proceed to the registration area after this function has been performed.

Lakeville will shelter up to 5,000 evacuees. Following assignment of these spaces, additional evacuees will be dispatched to adjacent communities with routing instructions and designated shelters. (see Appendix I)

Reception involves notification to the public (Annex "A") living within an affected area of a local influx of evacuees to the Town of Lakeville. This notification is to alert permanent residents of traffic restrictions, over-crowded conditions, and possible school dismissal.

B. Responsibilities and Procedures

1. An appendix of adjacent communities with designated shelters and capacities will be formulated later by the Massachusetts Civil Defense Agency Area II, Bridgewater. (See Appendix 2)

2. Evacuees being sheltered in Lakeville will proceed on routes outlined on attached maps to the two primary shelters, Austin Middle School and Apponequet Regional High School. If school is in session during initiation of this plan, students will be dismissed in accordance with the Emergency Dismissal Program outlined in standard school procedures. (See Appendix 3)

3. Lakeville Police, assisted by the Dept. of Public Works, will outline detailed requirements for movement control, number of personnel required, signs, traffic control aids, and egress routing. (See Appendix 3)

4. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area II Headquarters in Bridgewater, for updated advice on length of shelter period, or further necessary protective actions.

5. The responsibility for acting upon advice from the Massachusetts Civil Defense Agency to implement reception procedures lies with the Board of Selectmen.

6. The Civil Defense Director shall coordinate reception procedures on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary reception measures.

7. The procedures for public notification of reception action shall be performed in accordance with Annex "A".

8. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

9. The Lakeville and Regional School Departments shall

be responsible for dismissal of students from the regional and local schools, if in session. Dismissal will be carried out as follows:

a. Students and faculty from the Freetown-Lakeville Regional School will be transported by bus to their homes.

b. Students and faculty from local schools will be transported by bus to their homes.

Following dismissal, school principals will coordinate action required to convert the schools into shelter areas.

III. Radiological Monitoring and Decontamination

A. General

All evacuees will be directed off Route 18 South into the Lakeville Tennis Club. There two-man monitoring teams will be posted in the parking area of the Tennis Club. Each team will work on individual cars, with one monitor on the left side and one monitor on the right side of each car. Personnel will leave their cars for monitoring. If clean, they will immediately return to their car and proceed to the registration center.

B. Decontamination

Personnel found to be contaminated will be directed into the Tennis Club. Personnel will enter the Tennis Club via the rear door, females to the right and males to the left, and proceed through decontamination steps as outlined on the attached map. Following decontamination procedures, personnel will receive a final monitoring check, proceed to their cars in the parking lot, and continue on to the registration building. (See Appendix 4)

C. Emergency Medical Care

Emergency medical teams, consisting of EMT's and public health nurse, will be available in the front section of the Tennis Club to render emergency medical care and, if necessary, dispatch accident victims to a designated hospital.

D. Processing

As autos arrive at the Assawompset School they will enter the first driveway on the right and proceed to the rear of the school for parking. Entry will be through the east doors of the auditorium, which will serve as a holding area during inclement weather. Personnel will be escorted from the auditorium into the wings of the school for actual registration and assignment of shelter areas. Personnel to be sheltered will be given a local map indicating direction of their assigned shelter. Personnel not requiring shelter will be provided with a local map showing access to the nearest highway for ongoing travel. Signs will be erected showing direction to shelters and egress routes.

ANNEX B

APPENDIX I TRAFFIC CONTROL

To be developed by the Police Department at a later date.

ANNEX B

APPENDIX 2 ADJACENT COMMUNITY SHELTER INFORMATION

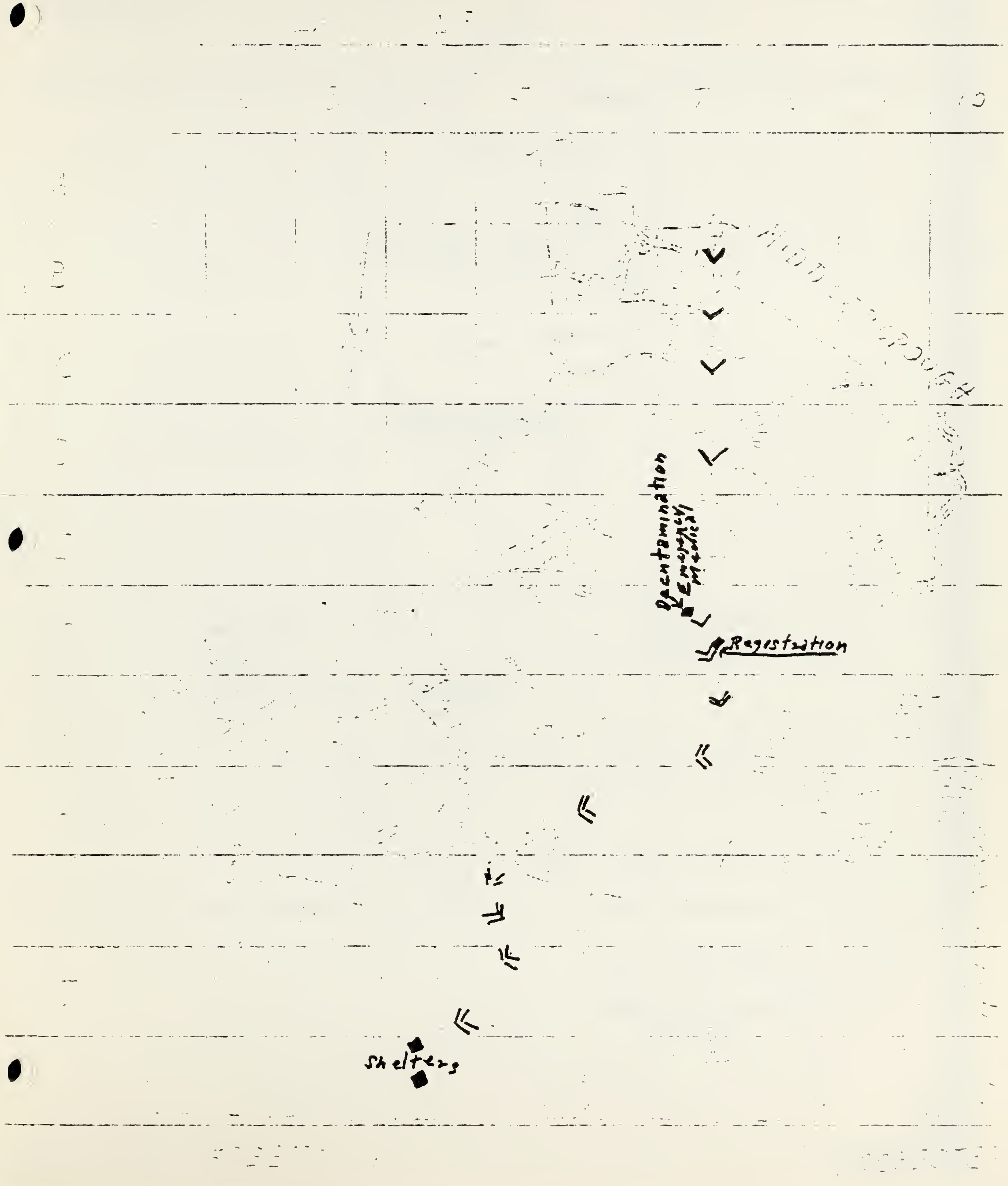
COMMUNITY	CAPACITY	SHELTERS	ROUTES TO SHELTER (from processing center)
Taunton	4,000	High School, Williams Street	Highland Rd. to 140 Route 140 (North/West) to Rte. 44 Rte..44 East to Dean St. Bridge Right at Dean St. Bridge and follow signs to school.
Taunton	2,000	Bristol/Plymouth Regional High School County Street	Highland Rd. to Rte. 140 Rte. 140 (N/W) to Rte. 24 overpass School on right of Rte.. 140 (County St.) just after Rte..24 overpass.
Taunton	1,500	Bennet School North Walker Street	Highland Rd. to Rte. 140 Rte. 140 (N/W) through Taunton Center to Glebe St. Left on Glebe St. then left on North Walker St., school on right side.
TOTAL	7,500 (need 7,067)		

→ Route From Plymouth

⇉ Route To Shelters

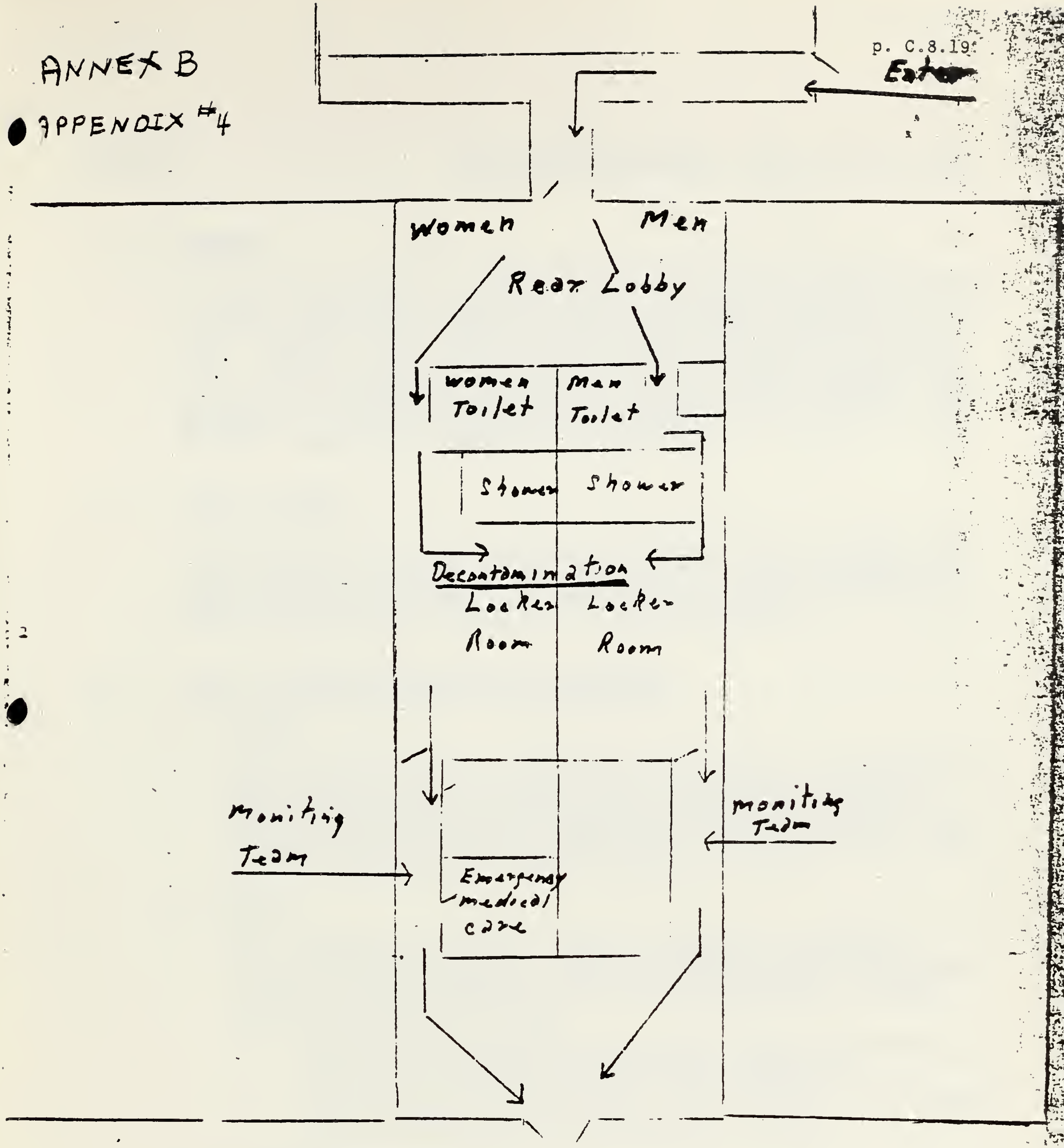
ANNEX B

APPENDIX #3


MIDDLEBOROUGH
Decontamination
Emergency Medical
Registration
Shelters

ANNEX B

APPENDIX #4


Exit
Women
Men
Rear Lobby
women Toilet
Man Toilet
Shower
Shower
Decontamination
Locker Room
Locker Room
moniting Team
Emergency medical care
moniting Team

Lakeville Tennis Club
Decontamination
Station

ANNEX "C" PROTECTIVE RESPONSE - FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Upon notification to the town by the State Department of Public Health or Department of Environmental Quality Engineering that the Assawompset Reservoir System is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed (names and telephone numbers);
2. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rests with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;

2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of: 1) dairy farms; 2) sources of stored feed; and, 3) commercial and large produce farms appear as Appendix I to this Annex.

ANNEX C APPENDIX I

Inventories of 1) dairy frams; 2) sources of stored feed; and 3) commercial and large produce farms will be developed by the Board of Assessors at a later date.

ANNEX "D" RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;
2. Verify readings of personal dosimeters worn by emergency workers.
3.. Monitor personnel and vehicles arriving from Plymouth.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;
3. Coordinating the activities of radiation monitoring personnel by an assigned RDO during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area II Headquarters.
4. Supporting, where necessary, monitoring requirements of registration centers.
5. Obtaining support from Civil Air Patrol for radiological monitoring.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.
2. The RDO for the Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area II Headquarters.

ANNEX "E" EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1. Maintaining adequate inventories of both high and low range personal dosimeters;
2. Distributing dosimeters during an emergency;
3. Advising Fire, Police and other personnel of exposure guidelines for emergency workers; and
4. Establishment and operation of monitoring and decontamination centers will be assigned to the public health nurse.

III. PROCEDURES

1. Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Town Office Building.
2. Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Town Office Building to pick up (1) high level and (1) low level dosimeter.
3. The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;
4. The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the directives outlined in Annex "D" of this Plan.

ANNEX "F" PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuance of public information.

II. RESPONSIBILITY

The Lakeville Civil Defense Public Information Officer is responsible for issuing public announcements relative to the occurrance of an incident at the Pilgrim I Nuclear Power Station. Prior to release, these releases will be coordinated with Area II Civil Defense.

III. PROCEDURE

Upon notification that there has been an incident at the Pilgrim Power Station the Lakeville Civil Defense Public Information Officer will take action as outlined in Annex "A".

Massachusetts Civil Defense Agency and Massachusetts Department of Public Health will issue news releases governing the surrounding communities emergency procedures following a nuclear incident at the Pilgrim I Power Plant.

The Lakeville Civil Defense Public Information Officer will issue additional information to the public periodically over radio and through newspaper announcements to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

ANNEX "G" SUPPORT SERVICES

I. GENERAL

Support services are those services necessary to support reception of evacuees, such as:

1. Public Safety - the deployment of law enforcement resources for crime prevention, maintenance of civil order, and direction and control of evacuees during the emergency period.
2. Personal Services - the provision of food, shelter, clothing and routine medical services for evacuees.
3. Emergency Medical Services - includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident resulting in evacuation of personnel within the 10 mile radius of Pilgrim One NPS. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided as outlined in this Plan.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in reception areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuating has begun, utilizing existing department procedures.

Support may be available through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Personal Services

The Red Cross, by Old Colony Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at shelter centers in Lakeville and elsewhere outside of the Town of Lakeville. (Reception Centers are designated in the Massachusetts

Civil Defense Agency's Area Plan for the Pilgrim I area.)

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

D. Emergency Medical Services

Lakeville Fire Department and Hayward Ambulance Service will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify hospitals to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area II Headquarters.

ANNEX "H" PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns affected by the Pilgrim I Nuclear Power Station.

APPENDIX #J

The development of this Plan was based upon existing operational capability and recognized that certain emergency services/functions will have to be increased and/or clarified, such as:

1. Acquisition of supplies, such as,
    a) Food
    b) Medical
    c) Bedding
    d) Clothing
2. Reimbursement for fuel, alectric, personnel.
3. Increase in the overall Radiological Defense System capability.
4. Continued training program for new radiological monitors.
5. Provision for CD V-700 Radiological Survey Meters, one for each emergency vehicle (total - 14).
6. Provisions for dosimeters, one for each person (total -   ).
7. Arrangement with Local Civil Air Patrol unit for radiological monitors.
8. Letter outlining monitoring reimbursement from Boston Edison Company insurance.
9. Letter from Department of Education directed to the release of schools.
10. Formulate mutual aid agreements with surrounding communities to shelter evacuees.

TOWN OF MARSHFIELD

RADIOLOGICAL EMERGENCY RESPONSE PLAN

1. PURPOSE

/ The purpose of this plan is to provide officials, agencies and departments of the Town of Marshfield with a basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

11. AUTHORITY

a. The Town of Marshfield is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during Civil Defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a nuclear power station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Marshfield Police (via State Police in Middleboro) and/or to Marshfield Fire (via NAWAS--See Section VI. 6. below) or the local Civil Defense shall trigger implementation. of protective response measures under this plan. A local state of emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Pilgrim I is located in the Town of Plymouth, Massachusetts, in Plymouth County on the west shore of Cape Cod Bay. The site contains about 528 acres owned by the Boston Edison Company. The land is bounded on the north, south and west by privately-owned land, and on the east by Cape Cod Bay. Site coordinates are approximately 41° 55" north latitude and 70° 35" west longitude.

2. The Town of Marshfield, the center of which is approximately ten and one-half (10½) miles NNW of Pilgrim I N. P. S. could be affected by a major accident at Pilgrim 1 N. P. S.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Marshfield lies with the emergency forces of the Town. The Board of Selectmen have designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local Emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the N.P.S. which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts Plan for Radiological Emergencies, and received by the Town as indicated in Annex A, WARNING AND NOTIFICATION.

IV. CONCEPT OF OPERATIONS

A. OBJECTIVES

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required.

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action.

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out.

4. Provide for the essential needs of citizens in the event protective action involves evacuation, or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;
2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;
3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to restrict immediately the consumption of freshly harvested produce which could have been contaminated and of milk, which may have become contaminated through ingestion by dairy cattle or contaminated pasturage;
4. Soil can become contaminated from particulates, from passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation. Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling access to affected areas
4. Pasturage and dairy animal feed control.
5. Control of milk, other foodstuffs and water
6. Administration of radioprotective drugs

D. PLANNING ZONES

For planning purposes, the area around Pilgrim I NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true north, and sectors are designated alphabetically, in a clockwise direction. Parts of Marshfield lie in sectors Q and R which are used as sector designators .

E. EMERGENCY OPERATIONS

If this plan ever has to be implemented, emergency operations will be coordinated by our Civil Defense Director, Richard E Nangle from the Town's Emergency Operations Center located in the D.P.W. building on Parsonage Street, Marshfield. Ma.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the basic operations plan. These responsibilities and other peculiar to the Radiological Emergency response Plan are reflected in Exhibit 1 "radiological Emergency Responsibilities and functions".

VI IMPLEMENTATION

A. Standby Level

Upon receipt by Marshfield Police direct from State Police in Middleboro or Marshfield Fire also from State Police in Middleboro (via scanner equipment) of a "Code Yellow" message, the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A--WARNING AND NOTIFICATION:
2. Such officials will assure the continued availability of required disaster response for as long as the Standby condition continues.
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency Area II in Bridgewater.

B. Alert Level

A particular radiological emergency may or may not involve an alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A--Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a Code Yellow followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, emergency operations activities will commence immediately in addition to those activities covered in the attached Annexes for general action, protective actions and supporting actions, emergency operations level activities will include;

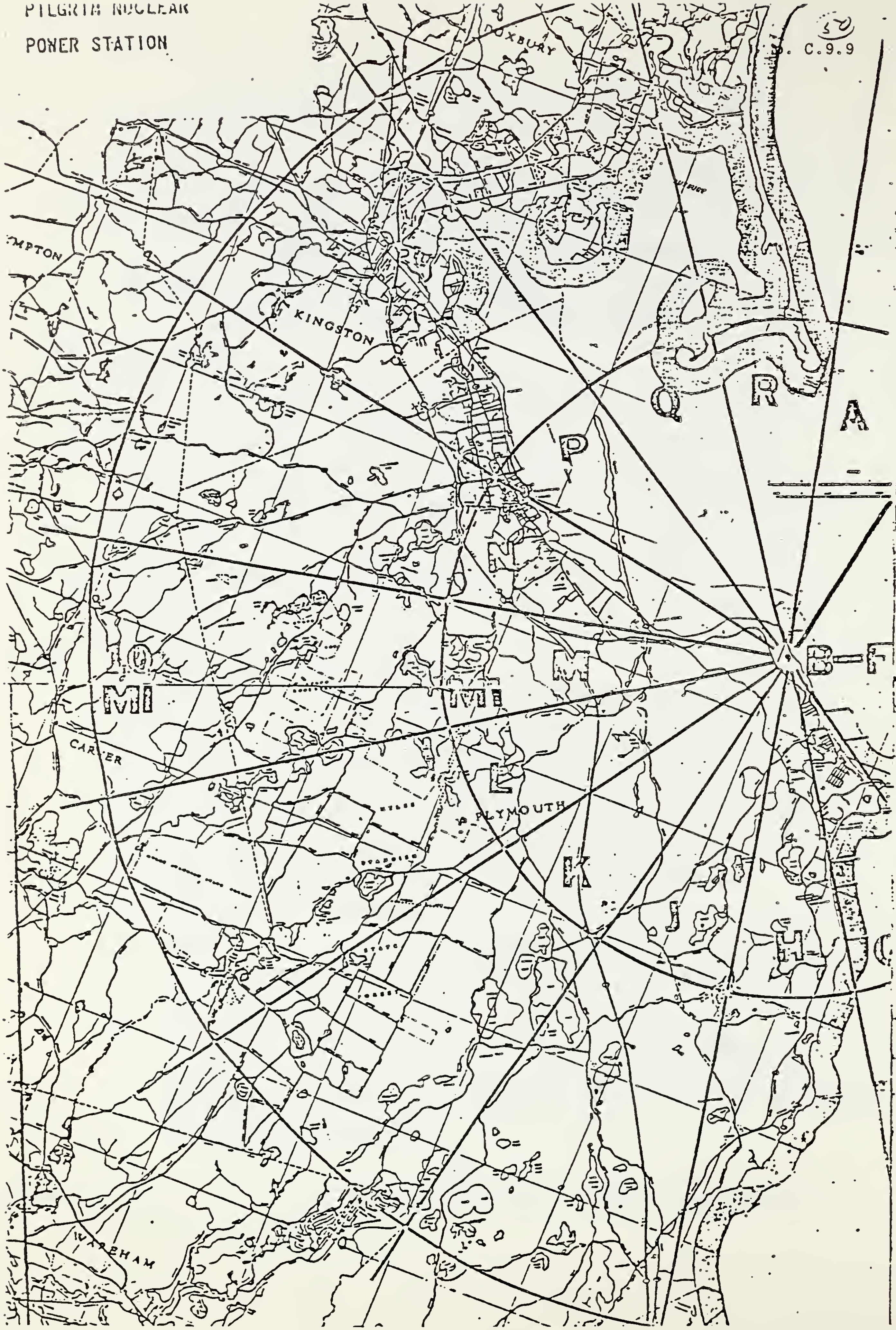
1. Activation of Emergency Operating Center;
2. Activation of all required Emergency Response Units;
3. Invoking of mutual aid arrangements with emphasis on assistance from Scituate and Cohasset;
4. Requesting State and/or Federal assistance in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its Radiological Emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area;
6. The taking of all other steps necessary to minimize loss of life, injuries and damage to property.

PILGRIM NUCLEAR
POWER STATION

C.9.9

(52)



XBURY
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WAREHAM

(30)

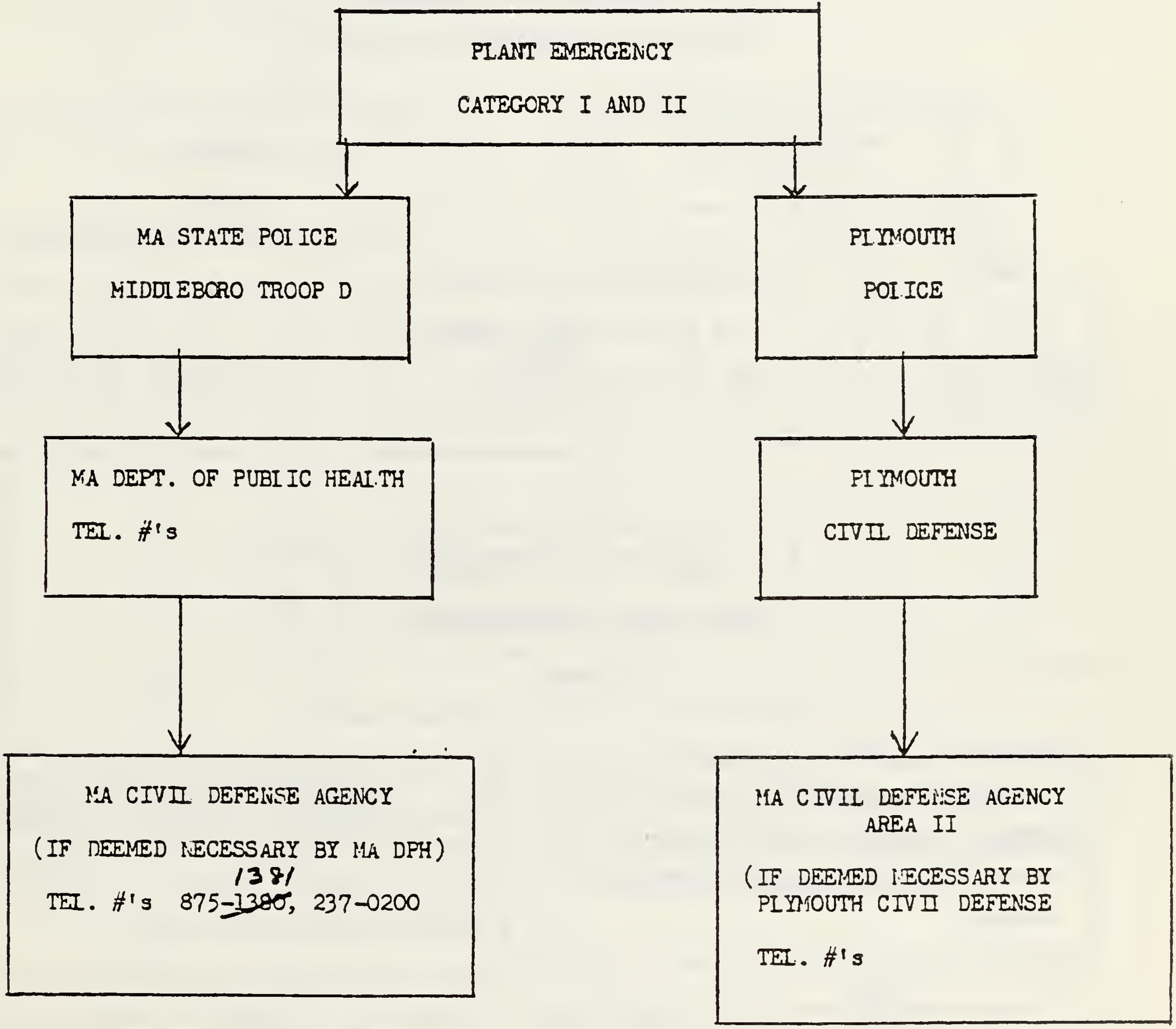
p. C.9.10

MASSACHUSETTS CIVIL DEFENSE AGENCY
AND OFFICE OF EMERGENCY PREPAREDNESS
AREA II
P. O. Box 54, Bridgewater, Mass. 02324

MASSACHUSETTS CIVIL DEFENSE AGENCY ALERTING PLAN (AREAII)

for a

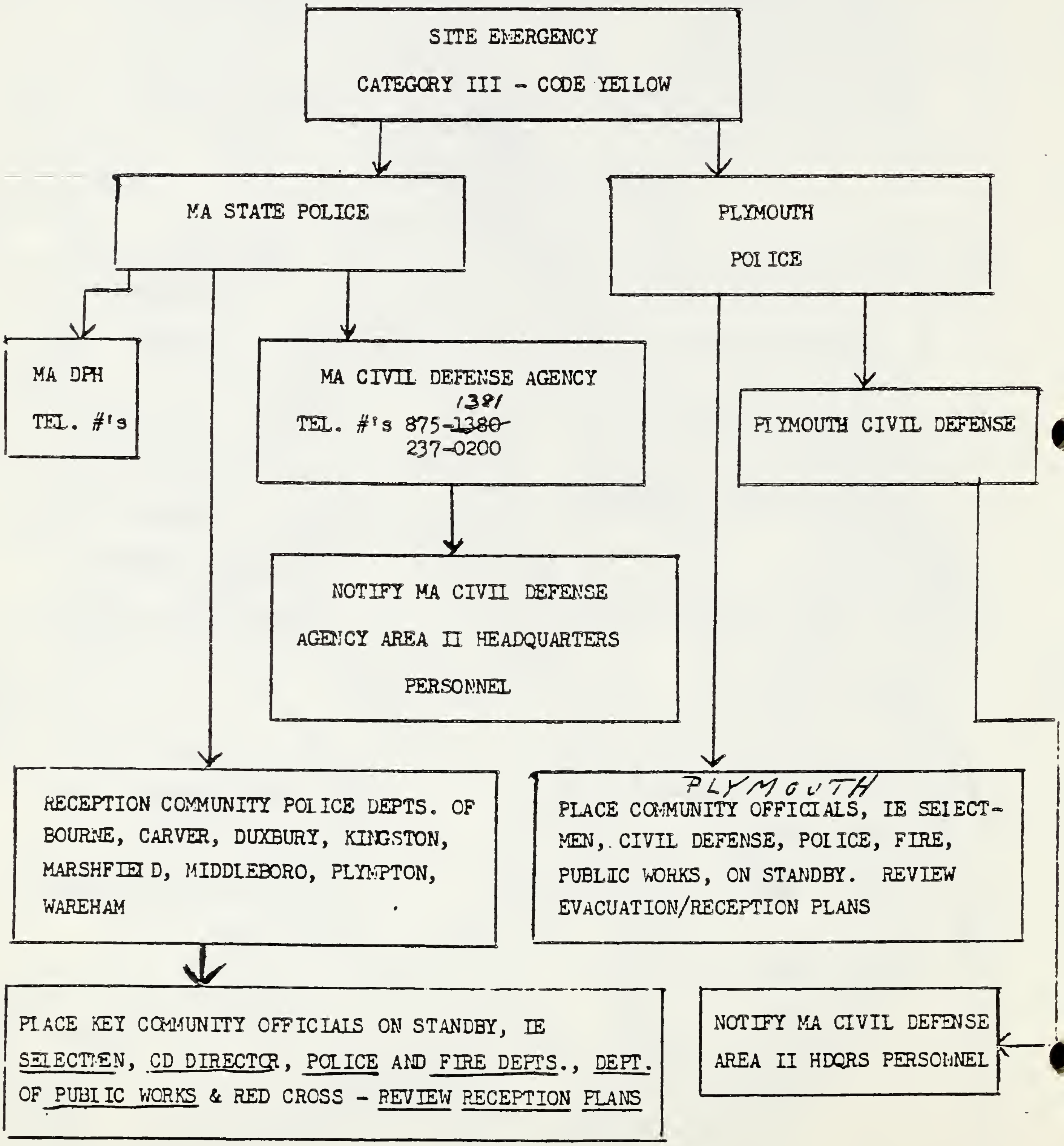
NUCLEAR INCIDENT AT PILGRIM I STATION, PLYMOUTH, MA


PLANT EMERGENCY
CATEGORY I AND II
MA STATE POLICE
MIDDLEBORO TROOP D
PLYMOUTH
POLICE
MA DEPT. OF PUBLIC HEALTH
TEL. #'s
PLYMOUTH
CIVIL DEFENSE
MA CIVIL DEFENSE AGENCY
(IF DEEMED NECESSARY BY MA DPH)
TEL. #'s 875-~~1380~~ 1381, 237-0200
MA CIVIL DEFENSE AGENCY
AREA II
(IF DEEMED NECESSARY BY
PLYMOUTH CIVIL DEFENSE
TEL. #'s

MASSACHUSETTS CIVIL DEFENSE AGENCY ALERTING PLAN (AREAII)

for a

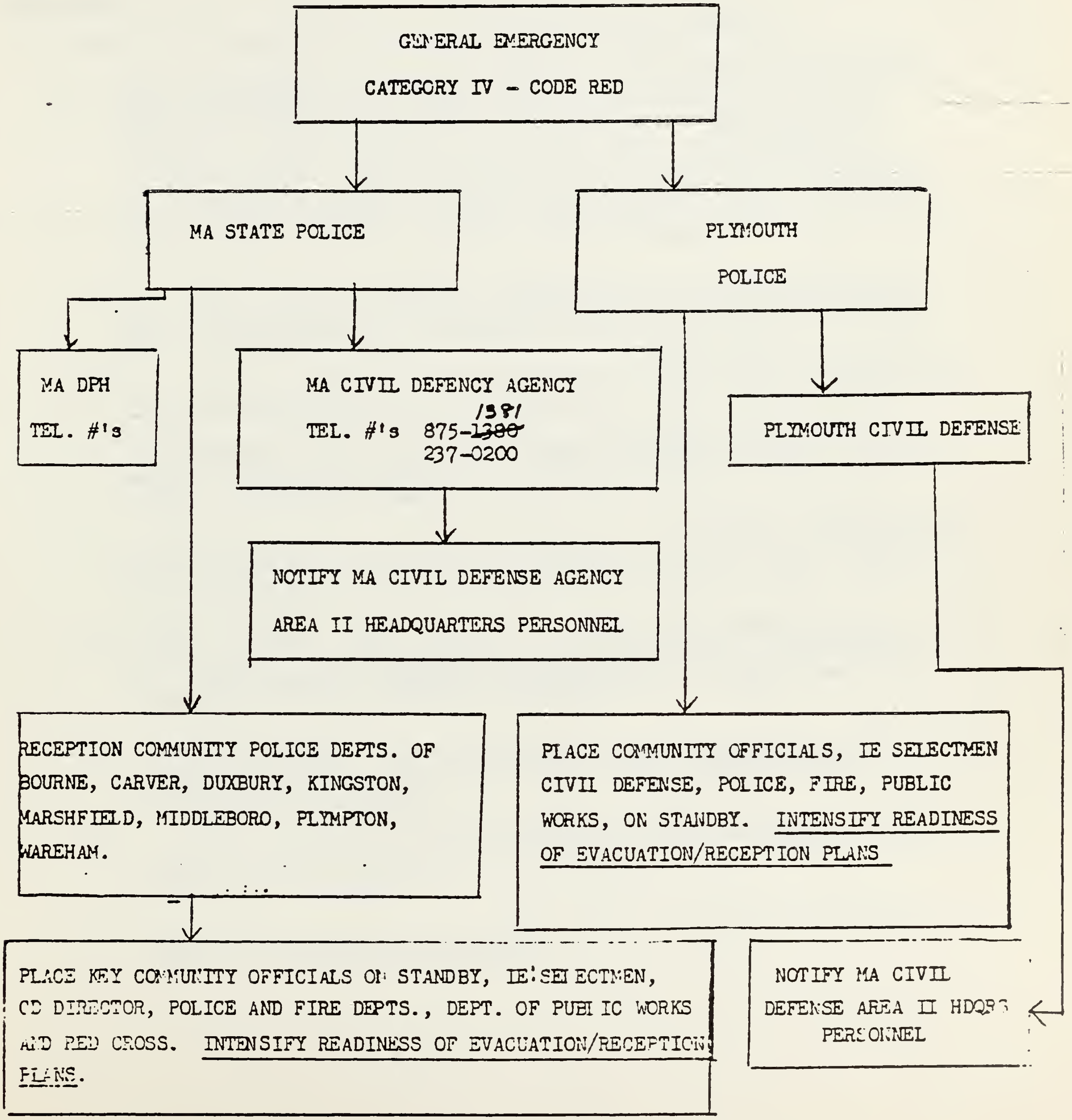
NUCLEAR INCIDENT AT PILGRIM I STATION, PLYMOUTH, MA


SITE EMERGENCY
CATEGORY III - CODE YELLOW
MA STATE POLICE
PLYMOUTH POLICE
MA DPH TEL. #'s
MA CIVIL DEFENSE AGENCY TEL. #'s 875-~~1380~~ 1381 237-0200
PLYMOUTH CIVIL DEFENSE
NOTIFY MA CIVIL DEFENSE AGENCY AREA II HEADQUARTERS PERSONNEL
RECEPTION COMMUNITY POLICE DEPTS. OF BOURNE, CARVER, DUXBURY, KINGSTON, MARSHFIELD, MIDDLEBORO, PLYMPTON, WAREHAM
PLACE PLYMOUTH COMMUNITY OFFICIALS, IE SELECTMEN, CIVIL DEFENSE, POLICE, FIRE, PUBLIC WORKS, ON STANDBY. REVIEW EVACUATION/RECEPTION PLANS
PLACE KEY COMMUNITY OFFICIALS ON STANDBY, IE SELECTMEN, CD DIRECTOR, POLICE AND FIRE DEPTS., DEPT. OF PUBLIC WORKS & RED CROSS - REVIEW RECEPTION PLANS
NOTIFY MA CIVIL DEFENSE AREA II HDQRS PERSONNEL

MASSACHUSETTS CIVIL DEFENSE AGENCY ALERTING PLAN (AREA II)

for a

NUCLEAR INCIDENT AT PILGRIM I STATION, PLYMOUTH, MA



GENERAL EMERGENCY

CATEGORY IV - CODE RED

MA STATE POLICE

PLYMOUTH POLICE

MA DPH
TEL. #'s

MA CIVIL DEFENCY AGENCY
TEL. #'s 875-~~1380~~ 1381
237-0200

PLYMOUTH CIVIL DEFENSE

NOTIFY MA CIVIL DEFENSE AGENCY AREA II HEADQUARTERS PERSONNEL

RECEPTION COMMUNITY POLICE DEPTS. OF BOURNE, CARVER, DUXBURY, KINGSTON, MARSHFIELD, MIDDLEBORO, PLYMPTON, WAREHAM.

PLACE COMMUNITY OFFICIALS, IE SELECTMEN CIVIL DEFENSE, POLICE, FIRE, PUBLIC WORKS, ON STANDBY. INTENSIFY READINESS OF EVACUATION/RECEPTION PLANS

PLACE KEY COMMUNITY OFFICIALS ON STANDBY, IE: SELECTMEN, CD DIRECTOR, POLICE AND FIRE DEPTS., DEPT. OF PUBLIC WORKS AND RED CROSS. INTENSIFY READINESS OF EVACUATION/RECEPTION PLANS.

NOTIFY MA CIVIL DEFENSE AREA II HDQRS PERSONNEL

Town of Marshfield Nuclear Incident Plan

ANNEX A --- EMERGENCY PREPAREDNESS

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1. Execution

A. Concept of operation-prior to evacuation/reception

1. Upon notification by State Police at Middleboro or Norwell, the Marshfield Police will notify the Director of Civil Defense. The Director of Civil Defense will respond to the CD Emergency Operations Center (EOC) and establish communications with the Massachusetts Department of Civil Defense Agency (MCDA) Area 2 for the purpose of assessing the problem. NOTE: At this time there is only a readiness status, no official actions are to be taken.

2. All staff members and key individuals will be notified as outlined in Alert list # and requested to report to the EOC in preparation of possible evacuation/reception order.

3. The staff and the Selectmen shall be briefed by the Director of Civil Defense on the problem and future requirements.

4. Assessment of all available communications systems will be made. Communications Officer will advise the Director of status of all equipment.

5. Notify and place on stand-by the Transportation Coordinator. He will notify and place on stand-by all the local equipment available.

6. Asst. Director will maintain a continuous check of all the support systems, radios, transportation, buildings to be sure they are prepared for service. He will keep the Director notified of their status.

7. Establish communications with the local radio stations (WATD and WPLM). Selectmen will check prepared news releases for accuracy.

8. A staff journal will be kept at all times making accurate record of all activities. This will be done by the Assistant Director.

9. Review all actions to be taken when an evacuation/reception order is received from MCDA.

B. Concept of operation-, Evacuation/Reception.

1. The Director will be notified by the Police Department at such time as the Massachusetts Department of Public Health or the MCDA HQS has determined the need to evacuate a portion of the Town of Marshfield and/or an area of the Town of Plymouth due to an incident at Pilgrim Nuclear Power Station.

   a. It is likely this final notification will be made after the initial notification as outlined in Paragraph 1A. If this is the case, the notification will be made directly to the EOC via fastest communications method (Ex. phone/radio/messenger) available.

2. Should the EOC not be manned already, the same steps as outlined in Paragraph Annex A #1 thru #5 will be followed. These steps will already have been done if the EOC is manned.

3. Instruct Police and Fire Departments to sound the alert for the area of Marshfield that has to be evacuated, by all available means.

4. Have all available Police and Firefighters dispatched to the area to be evacuated to pass the warning and assist in the evacuation.

5. Ensure the Gov. Winslow School, if in session, to be ready for immediate evacuation to the Marshfield High School complex.

6. Notify all schools of the activation of the evacuation/reception order (See alert list # for school personnel to be alerted.)

7. Contact the local radio stations, WPLM and WATD, and TV stations with the necessary instructions for the public on what to do.

8. Establish area units to check as to the progress of the evacuation and keep the EOC advised of the progress. (DPW personnel will be used for this purpose. They will use DPW radio systems to report status.)

9. The Transportation Coordinator will direct all buses to the area to be evacuated.

10. Maintain constant contact with MCDA AREA II and MDPH.

11. Maintain up-to-date operations board on all matters, including special cases such as elderly persons, injured persons, requiring special handling.

Concept of operation, Evacuation/Reception, cont'd

1 Police, assisted by firefighters, will provide traffic control at all reception areas and on town roads in accordance with AREA II MCDA traffic plan.

C. Concept of Operation-Reentry Procedures.

1. The MDPH/MCDA will provide guidance and information to local officials as to the possibility for reentry. The Selectmen shall make the final decision.
2. The notification for reentry will be transmitted to all reception points via the best communications system available.
3. The release of evacuees will be done as orderly as possible so as not to create a traffic jam while returning home. Routes to be used will be designated.
4. Transportation for all persons evacuated, where necessary, will be provided by best means of public transportation available.
5. Police Department, assisted by the Fire Department, will provide traffic control for reentry on town controlled roads.
6. The Director/Staff Assistants will continue to maintain an updated operation board/logs until he is satisfied that the emergency is over.
7. The Director shall maintain his total staff until such time as he and the Selectmen are satisfied that the emergency is over.
8. Total documentation for all activities will be required. The Director will require all logs are prepared and maintained until the end of the emergency, and returned to the Director of Civil Defense.
9. An after-action report will be prepared by the Director and his staff, submitted to the Chairman, Board of Selectmen and other agencies as required.

Accepted by:
Director of Civil Defense

Approved: Chairman, Board of
Selectmen

MARSHFIELD POLICE ALERTING PLAN
FOR A NUCLEAR INCIDENT
AT PILGRIM I STATION
PLYMOUTH, MASS.

UPON RECEIVING A MESSAGE FROM THE STATE POLICE BARRACKS AT MIDDLEBORO, MASS., YOU-(SHIFT SUPERVISOR/DESK OFFICER)- WILL NOTIFY THE CIVIL DEFENSE DIRECTOR

RICHARD E. NANGLE HOME: 837-0301
100 FERRY STREET, MARSHFIELD OFFICE: 837-6616
CIVIL DEFENSE DIRECTOR

WHO THEN WILL NOTIFY

SELECTMAN
JAMES CREED (CHAIRMAN) HOME: 834-7075
BAROUCHE DRIVE, MARSHFIELD OFFICE: 666-4221

DEPUTY DIRECTOR CIVIL DEFENSE
WALTER DRUAN HOME: 834-9550
LAUREL STREET, BRANT ROCK OFFICE: 834-9550

ASST. DEPUTY DIRECTOR
DANIEL McGONAGLE
107 STAGECOACH DRIVE, MARSHFIELD HOME: 834-4959
OFFICE: 743-4313

CHIEF OF POLICE DEPT.
JOHN R. RODERICK HOME: 834-6307
30 VALLEY PATH, MARSHFIELD OFFICE: 834-6655

CHIEF OF FIRE DEPT.
EDGAR M. SIMMONS HOME: 834-4134
90 FERRY ST., MARSHFIELD OFFICE: 837-1315

DEPT. OF PUBLIC WORKS
GILBERT BURNS, SUPT. HOME: 834-6259
22 TRAVELERS LANE, MARSHFIELD OFFICE: 837-5141

COMMUNICATION OFFICER
GEORGE McCARRON HOME: 834-6283
3 RAYFIELD ROAD, MARSHFIELD

TRANSPORTATION OFFICER
CHESTER SOUZA HOME: 837-2725
LIBERTY ROAD, MARSHFIELD

BOARD OF HEALTH		
FRANK TOWER	HOME:	834-8093
FERRY STREET, MARSHFIELD	OFFICE:	837-5141
VETERANS AGENT		
JOHN M. NANGLE	HOME:	834-7888
SO. RIVER ST., MARSHFIELD	OFFICE:	837-5141
BUILDING INSPECTOR		
HARRY K. TROUT	HOME:	834-4912
OLD MT SKIRGO, MARSHFIELD	OFFICE:	837-5141

ANNEX B PROTECTIVE RESPONSE-EVACUATION, SHELTER AND ACCESS CONTROL

I. INTRODUCTION

Evacuation, shelter and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological realese.

The recommended action will be based upon protective action guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include approximately 10% of the Town of Marshfield, they also include an influx of approximately 75% of the evacuees from Duxbury and additional evacuees from the Squish and Clark Island sections of Plymouth. As far as evacuees from Marshfield within the 10 mile risk, zone they would come from the Careswell Street section of Marshfield, which falls within Sectors Q & R. (See schematic). Shelter, access control and evacuation actions are covered separately below.

II. SHELTER

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways:
1) assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a department of Public Health determination that shelter is recommended in a given area, the local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the local Civil Defense Director, in accordance with Annex A.

3. The local Civil Defense Director will maintain

III. ACCESS CONTROL

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determing a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rest primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending on the affected area. Key points are:

   Route 3-intersection of 3-A
   Routes 53 and 139
   Route 3-A-Duxbury-Marshfield line
   Route 14 at Lincoln Street
   Routes 3-A and 139 at Careswell Street

IV. EVACUATION

A. General

Evacuation involved notification to the public (Annex A) living within an affected area are to leave their homes, business or recreation area and report to 1) Furnace Brook School, or 2) Grace Ryder School. Both of which schools, having accommodation for initial general reception, registrations, public shelter, radiological monitoring and decontamination.
Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and in their absense, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

   A. South on Route 139 to Ames Way School
   B. South from Route 139 to Webster Street to the Martinson School

   Influx of evacuees from 1. Duxbury 2. Saquish and 3. Clark Island will come in to Marshfield via Route 3-A to Ocean Street to Main Street to Grace Ryder School.

   Any overflow from Grace Ryder School will go from Main Street to South River Street to the South River Elementary School and the Alamo which adjoins South River Elementary School.

6. The Furnace Brook School - Marshfield through Marshfield School Administration shall be responsible for receiving evacuees.

7. The Marshfield School Administration shall be responsible for the evacuation of students and faculty from the Governor Winslow, if in session. School buses for transport.

V. RECEPTION CAPABILITY

Reception/Shelter capability for Marshfield and evacuees from other locations i.e., Duxbury and Saquish/Clarks Island from Plymouth will be at the following locations.
The locations 1, 2 and 3 are prepared to perform the initial radiological monitoring and decontamination operations as well as reception, registration, sustained housing and sustenance for evacuees. The unumbered locations can provide overflow housing and sustenance.

1.	Eames Way School - For Marshfield residents only	capacity 2500
2.	Furnace Brook School	capacity 4500
3.	Grace Ryder School	

South River School
The Old Alamo School
Daniel Webster School

The Marshfield High School will be used to handle any overload of evacuees from the above Reception Areas. The Marshfield High School can house and feed 2500 people.

Persons from Marshfield, Duxbury and Saquish/Clark's Island sections of Plymouth desiring public shelter accommodations which cannot be housed in Marshfield, Duxbury and Plymouth will be routed to the Towns of Pembroke, Scituate and Cohasset from the major processing centers as previously identified. Mutual aid arrangements for this support have been developed.

ANNEX B

ATTACHMENT # 1

ADJACENT COMMUNITY PUBLIC SHELTER AVAILABLE TO MARSHFIELD
(info supplied by Civil Defense Directors of each Community)

COMMUNITY	SHELTER/S	CAPACITY	ROUTES TO SHELTER FROM MARSHFIELD
Pembroke	Silver Lake Junior High School, School Street	500	Rte. 139W to Rte. 53. Rte. 53S to Rte. 14. Rte. 14W to Rte. 36. Rte. 36S to Rte. 27.. Rte. 27S. School is on Rte. 27, three miles from intersection of Rtes. 36 & 27 on right side of road.
Pembroke	Silver Lake High School and Elementary School (Learning Lane)	2,700	Rte. 139W to Rte. 53. Rte. 53S to Rte. 14. Rte. 14W to Rte. 36. Rte. 36S to Hobomock St. Left on Hobomock street to Learning Lane.
SUBTOTALS	2 shelters	3200 spaces	
Cohasset	Osgood School Riply St. and Sawyer Road	330	Rte. 3A N to Cohasset on to Sawyer Rd.. Right on Sawyer Rd., school is the second school on right at Riply St. intersection.
Cohasset	Deerhill School Sawyer Road	378	Rte.. 3AN to Cohasset onto Sawyer Rd. Right on Sawyer Rd. to school, first school on right.
Cohasset	High School and Junior High School Pond Street	914	Rte. 3AN to Cohasset onto Pond Street (2nd set of lights.) Right on Pond Street. The School is on the left.
subtotals	3 shelters	1622 spaces	
Scituate	High School, First Parish Rd.	1,600	Rte. 3AN to Scituate. Right on First Parish Road (at Town Hall). School to the rear of Town Hall which is on Rte.. 3A.
Scituate	Gates Middle School First Parish Road	500	Rte. 3AN to Scituate. Right on First Parish Road to school.
Scituate	Jenkins School 61 First Parish Rd.	500	Rte. 3AN to Scituate. Right on First Parish Road to school.
Scituate	Wamputuck School 266 Tilden Road	800	Rte. 3AN to Scituate. Right on First Parish Road to Tilden Rd. Left on Tilden Rd. to school.
Scituate	Cushing School 1 Aberdeen Drive	800	Rte. 3AN to Scituate. Just past Town Hall there will be a sign to school.
Scituate	Hatherley School 72 AnnVinal Road	600	Rte. 3A N to Bailey Causeway, right on causeway to County Way. Right on County Way to Boarder St. Left on Boarder St.. to AnnVinal Rd. Right on AnnVinal to school
subtotals	6 shelters	4800 spaces	

TOTALS FOR ALL PUBLIC SHELTER IN ADJACENT COMMUNITIES:

11 shelters 9,622 spaces

ANNEX C PROTECTIVE RESPONSE - FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion of cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time. Although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Marshfield derives water from artesian wells. Storage in enclosed tank only.

B. Milk

There are no dairy farms in the Town of Marshfield.

C. Other Foodstuffs

There are no commercial farms within Marshfield, only private gardens.

It shall be the responsibility of the Marshfield Board of Health to maintain awareness of and assist in disseminating public information relative to necessary actions.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities.
2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring.
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area II Headquarters.
4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy

periods.

2. The Civil Defense Director will maintain logs of monitoring activity, and periodically report to Massachusetts Civil Defense Agency Area II Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1. Maintaining adequate inventories of both high and low range personal dosimeters.
2. Distributing dosimeters during an emergency;
3. Advising fire, police and other personnel of exposure guidelines for emergency workers.
4. Assisting state authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Marshfield EOC, Highway Dept.,Parsonage St.
2. Chiefs of services will direct all emergency workers assigned to potentially hazardous areas to the EOC, Highway Dept. to pick up (1) high level and (1) low level dosimeter.
3. The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CS V-700) to validate dosimeter readings.
4. The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

IV. DECONTAMINATION CENTER

1. Radiological decontamination (i.e.showers, storage of radioactive contaminated waste material) will be available at the three Radiological Monitoring Stations located at the (3) sites and listed in Annex B- Reception.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Marshfield Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Pilgrim I Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Pilgrim I Nuclear Power Station, the Marshfield Civil Defense Director, or his designee, will contact radio stations WPLM in Plymouth, WATD in Marshfield and WBZ-TV, Channel 4 in Boston to issue approrpriate releases. Such releases should be consistent with information received from Area II Headquarters Massachusetts Civil Defense Agency.

TELEPHONES:

WPLM	746-1390 or 2824
WATD	837-1166 or 1169
WBZ-TV	1-787-7000

The following standard releases have been prepared to facilitate the release of public information during an emergency.

NEWS RELEASE #1

An alert has been declared by Boston Edison for its Pilgrim I Nuclear Power Station in Plymouth, Massachusetts. This alert has resulted because of an emergency condition at the plant site. NO radiation hazard exists and NO danger is expected outside the plant boundary. Stay tuned to this radio/tv station for further information. Do not go to the plant area. REPEAT -- DO NOT GO TO THE PLANT -- DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Boston Edison for its Pilgrim I Nuclear Power Station in Plymouth, Massachusetts. There has been a release of radioactive material at the plant site. NO DANGER IS EXPECTED OUTSIDE THE PLANT BOUNDARY. DO NOT CALL OR GO TO THE PLANT AREA. LOCAL AND STATE PUBLIC HEALTH AND CIVIL DEFENSE OFFICIALS WILL ADVISE IF OTHER STEPS ARE REQUIRED. REPEAT ----- THIS IS AN EMERGENCY ALERT --- STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Boston Edison for its Pilgrim I Nuclear Power Station in Plymouth, Massachusetts. If a public hazard develops you will be notified via this radio/tv station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Marshfield Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety -- the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.
2) Social Services -- the provision of food, shelter, clothing and routine medical services for evacuees.
3) Emergency Medical Services -- includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public safety and emergency medical services will be provided in the context of the Massachusetts Civil Defense Agency's area plan for towns in the vicinity of Pilgrim I Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available through Mutual Aid arrangements or from the State Police, National Guard or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at the major reception area.

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Marshfield Police Department will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will be notified to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with Massachusetts Civil Defense Agency Area II Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating and the conduct of all tests and exercises.

B. Other Agencies

Other agencies and departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the area of Boston Edison's Pilgrim I Nuclear Power Station.

TOWN OF MIDDLEBOROUGH

NUCLEAR INCIDENT RESPONSE PLANS

A RECEPTION COMMUNITY

FOR THE EVACUATION OF PLYMOUTH

OCTOBER 1979

TOWN OF MIDDLEBOROUGH

NUCLEAR INCIDENT RESPONSE PLAN

RECEPTION COMMUNITY

1. PURPOSE

The purpose of this plan is to provide the Town of Middleborough with a planning basis for carrying out those activities necessary to provide temporary shelter to the public who may have to evacuate the Town of Plymouth in the event of a nuclear power station accident at the Pilgrim 1 Nuclear Power Plant in Plymouth.

11. AUTHORITY

The Town of Middleborough is governed by a Board of Selectmen as provided by pertinent Laws of the Commonwealth of Massachusetts.

In accordance with Section 13Y Chapter 639, Acts of 1950 as amended, the Board of Selectmen have appointed a Civil Defence Director. The Board is responsible by law for the health and safety of persons and property and exercises this authority, during civil defense emergencies, through the Civil Defense Director.

This Nuclear Incident Response Plan has been developed in acordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950 as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan.

This plan has been developed as a result of a Court decision that the Massachusetts Civil Defense and the Plymouth Nuclear Power Plant be prepared to evacuate the residents of Plymouth who reside within a radius of 10 miles from the Nuclear Power Plant, in case of an accident releasing nuclear matter into the environment.

The Town of Middleborough will be able to accomodate 6,000 evacuees for a short period of time, hopefully not more than 3 days.

111. PLANNING OBJECTIVES

In the event of an incident at the Pilgrim Nuclear Power Plant in Plymouth it has been determined that it may be necessary to evacuate the people who live within 10 miles of the plant. Because Middleborough is beyond the area of evacuation, it has been selected as a Reception Community. As such, it must provide temporary shelter for some of the evacuees from Plymouth.

The Town of Middleborough will provide temporary shelter for the evacuees, with the understanding that the impact on the normal every-day life style of the citizens of the town will be minimal.

Since this plan is for a contingency that may not occur it must be kept brief and flexible. Also, it must be in the form of a generality to allow for the season of the year, the day of the week and other unforeseen situations such as severe weather conditions and natural catastrophies.

WARNING AND ALERT

In the event of an accident at the Plymouth Nuclear Power Plant it is anticipated that the Middleborough Police, the Town Hall and the Civil Defense Director will be notified immediately. This notification will come from the State Civil Defense Office, the Plymouth County Police Radio Network, radio station WPLM or the State Police.

Upon verification that an accident has occurred the following will be informed and placed on stand-by alert:

Middleborough Police Dept.
Middleborough Fire Dept.
Town Hall
Middleborough Emergency Radio Group
Dept. of Public Works
Middleborough School Dept.
St. Lukes Hospital
Agricultural Coordinator
Public Information Coordinator

When or if evacuation of Plymouth becomes a reality, the above will be notified and the Reception Plan will be implemented. All communications will be routed through the Middleborough Police Dept. dispatcher.

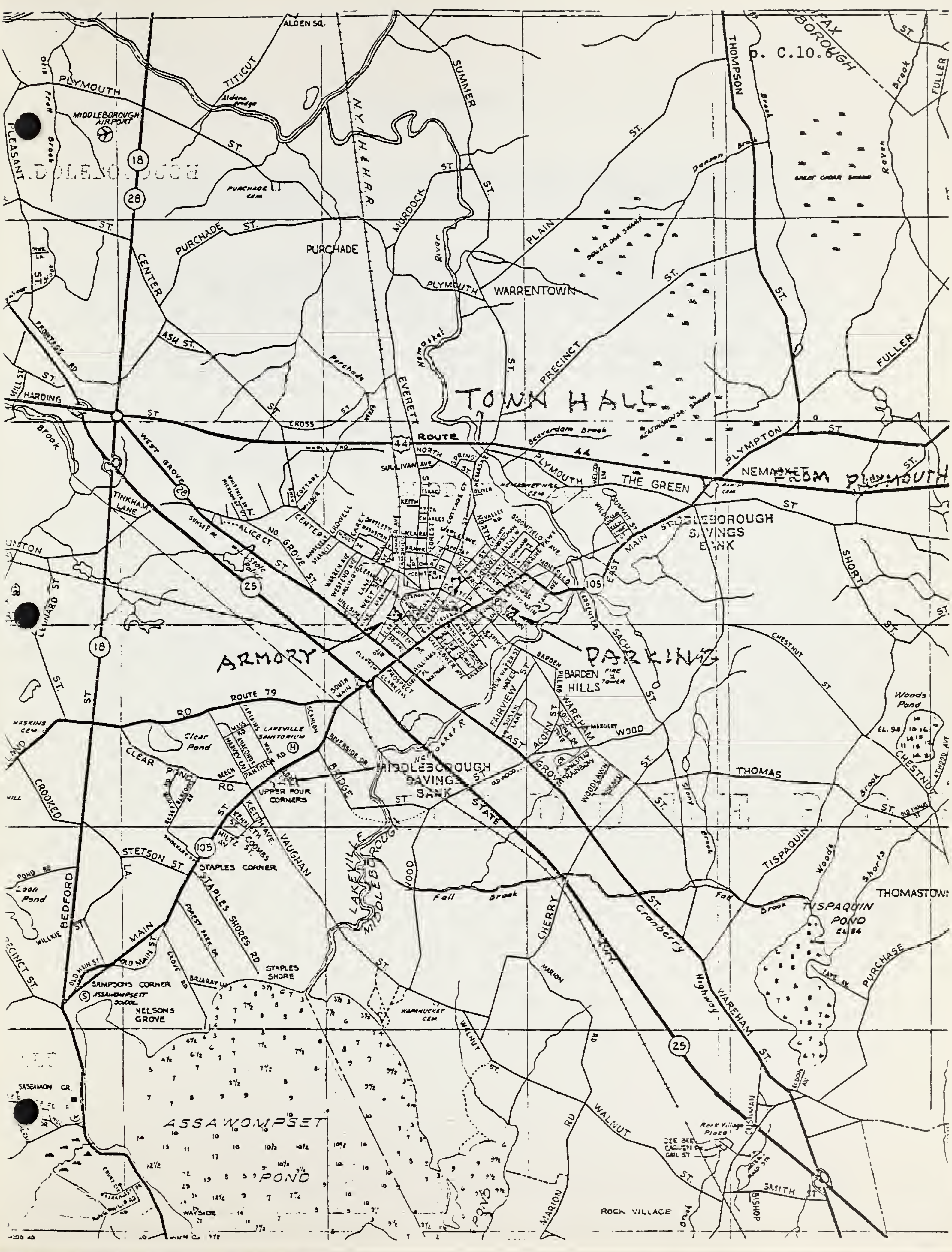
MEDICAL SUPPORT

The facilities of St. Lukes Hospital will be available. Upon verification that Plymouth is being evacuated, Hospital Administrator Matthew Ustas will be notified. If he is not available, Director of Nurses Virginia Herdke will be notified. They can be reached by telephone 947-6000 and can muster doctors and nurses as needed.

Hayward's Ambulance Service will be on stand-by and can be reached by telephone at 947-0760. Also, their ambulances are equiped with Police network radios. Four Police Car Station Wagons have basic ambulance facilities and will be available if needed.

Patients exposed to radiation that arrive in Middleborough will be transferred to Brockton City Hospital.

The Town Health Inspector will inspect the shelter buildings daily and refuse will be collected from them daily. The Dept. of Public Works will provide the vehicles for refuse pick-up.


TOWN HALL
ARMORY
PARKING
FROM PLYMOUTH
MIDDLEBOROUGH AIRPORT
PLYMOUTH ST.
TITICUT
ALDEN SQ.
N.Y.N.H.&H.R.R.
SUMMER ST.
THOMPSON ST.
PURCHADE
PURCHADE ST.
CENTER ST.
MURDOCK ST.
PLAIN ST.
WARRENTOWN
PRECINCT ST.
Nemasket River
EVERETT ST.
ROUTE 44
PLYMPTON ST.
NEMASKET ST.
THE GREEN
MIDDLEBOROUGH SAVINGS BANK
EAST MAIN ST.
SHORT ST.
FULLER
HARDING ST.
WEST GROVE ST.
TINKHAM LANE
NO. GROVE ST.
ALICE CT.
CHESTNUT ST.
BARDEN HILLS
FIRE TOWER
WAREHAM ST.
WOOD ST.
ROUTE 79
Clear Pond
CLEAR POND RD.
LAKEVILLE SANITORIUM
UPPER FOUR CORNERS
THOMAS ST.
STATE HWY.
VAUGHAN ST.
STAPLES CORNER
STETSON ST.
STAPLES SHORES RD
Fall Brook
Cranberry Highway
TISPAQUIN ST.
TISPAQUIN POND
THOMASTOWN
Woods Pond
PURCHASE ST.
Loon Pond
BEDFORD ST.
CROOKED LA.
LEONARD ST.
SAMPSONS CORNER
ASSAWOMPSETT SCHOOL
NELSON'S GROVE
ASSAWOMPSET POND
WAPANUCKET CEM.
MARION RD
WALNUT ST.
CHERRY ST.
Rock Village Plaza
ROCK VILLAGE
SMITH ST.
BISHOP
18
28
25
44
105

PUBLIC SAFETY

As a Host Community for evacuees, there must be as little disruption as possible for the citizens of Middleborough in their normal ever-day lives.

While the evacuation of Plymouth is in progress, the Chief of Police will assign his Force and Auxillary Police as needed for traffic control and direction. Auto tow trucks and wreckers are available to him on call by telephone and radio.

Police and Fire Dept. personnel will visit the shelters for routine inspections. Shelter managers will request police monitors, if necessary.

Because of our narrow streets and conditions of traffic congestion at various times, evacuees will be discouraged from using their vehicles after they are arrive here.

MOVEMENT CONTROL

Upon receipt of verification that evacuees are departing from Plymouth, they will be met by the Middleborough Police and possibly the State Police at the intersection of Routes 44 and 105.

Upon presentation of an Evacuation Registration form, they will be directed over Route 105 or alternate streets as the Middleborough Police deem necessary because of traffic conditions at the time to the Reception Center which is the Middleborough Town Hall. If conditions are such that the Town Hall cannot serve as the Reception Center, the alternate site will be the Middleborough Armory.

Automobiles containing pregnant women and children under 5 years of age will be directed to another town farther removed. Automobiles containing pets will be directed to another town.

After the evacuees have registered at the Reception Center and been assigned shelter, they will park their automobiles at the Athletic Field at the intersection of Lincoln and Jackson Streets to the rear of the Police Station. This field is within walking distance to most of the shelter buildings. Buses will be provided for transportation to the shelters at greater distances. For the evacuees assigned to the Middleborough High School, Burkland School and Mayflower School there is sufficient parking at those sites and the evacuees may drive to them.

Policemen or Auxillary Police will be assigned to all the important intersections to control traffic and direct the evacuees.

Evacuees will return to their community by the reverse of the above procedure.

HOUSING AND FEEDING ARRANGEMENTS

In order to minimize the disruptions on the normal every day living for the citizens of Middleborough the Housing and Feeding shelters will be the local churches and schools. These facilities have kitchens.

Upon reporting to the Reception Center at the Town Hall or Armory, the evacuees will be assigned a shelter. Most of the shelter buildings are within walking distance from the centralized parking lot. Buses will be provided for the ones outside of reasonable walking distance.

When notification is received that Plymouth is being evacuated, Area 11 Civil Defense Headquarters will be contacted for information on food supply, blankets and sanitary supplies. Town Dept. of Public Works trucks will be available to pick up these supplies and distribute them at the shelters.

While the shelters will provide the minimum necessities to sustain the evacuees for a brief period of time, the absence of bathing facilities mandate that these temporary living quarters cannot be occupied more than approximately 3 days.

On the following pages are the lists of churches and schools with their capacities and the names of the shelter managers:

EMERGENCY ACCOMODATIONS
AVAILABLE in the CHURCHES of MIDDLEBORO, MA

coordinator Rev. Charles F. Sousa
947-0107 - 947-7979

TOTAL ACCOMODATIONS FOR MEALS 1250 people
TOTAL ACCOMODATIONS FOR SLEEPING 1400 - 50 sq ft per person

CENTRAL CONGREGATIONAL CHURCH - corner South Main & Webster Sts., Middleboro

947-0107	Rev. Charles F. Sousa, Pastor
947-4354	Mrs. Mary Lou Waite, church secretary
947-3553	Gerald M. DeCosta, chairman of the board
947-1256	Telephone where space is available

MEAL ACCOMODATION: 190
SLEEPING ACCOMODATION: approx. 190 people (in two buildings)
TOILET FACILITIES: 2 in each building (total 4)

SACRED HEART CHURCH - 340 Center Street, Middleboro

947-0444	Rev. D. Vincent McCarthy, minister
947-0444	always someone to answer
-	No telephone where space is available

MEAL ACCOMODATION: 200-250
SLEEPING ACCOMODATION: approx. 300 sq. ft. 130 people
TOILET FACILITIES: 4

CHURCH OF OUR SAVIOUR - Corner Center and Union Sts., Middleboro

947-1900 (office) 947-9207 (rectory)	Rev. David E. Allen, Pastor
947-4459	Albert T. Maddigan
947-2680	Mrs. John Turner
947-1900	Telephone where space is available

MEAL ACCOMODATION: 200
SLEEPING ACCOMODATION: 6000 sq. ft. 120 people
TOILET FACILITIES: 3 toilets, 2 urinals

FIRST CONGREGATIONAL CHURCH - 6 Plympton Street, Middleboro

947-4623 (parsonage) 947-1821 (church office)	Rev. Robert T. Pardon, Pastor
947-7342	Rev. Daniel Trathen, assistant pastor
947-7462	Mrs. Joan Hardy, church secretary
947-1831	Telephone where space is available

MEAL ACCOMODATION: 250
SLEEPING ACCOMODATION: 1600 sq. ft. 135 people
TOILET FACILITIES: 3 toilets, 2 showers, (one toilet upstairs)

THE ROCK VILLAGE CHURCH - Miller Street, So. Middleboro

-	no minister
947-8207	Howard P. Sewall, church clerk
947-3766	Ernest Piper
-	Charles Thomas, 66 Mayflower Ave. Apt. 14, Middleboro
-	No telephone where space is available

MEAL ACCOMODATION: 100
SLEEPING ACCOMODATION: approx. 100 people
TOILET FACILITIES: 2

THE FIRST UNITARIAN CHURCH - corner South Main St. & Nickerson Ave., Middleboro

947-8617	Rev. A. John Skeirik, Pastor
947-1631	Mrs. Elsie Gaudette
947-1775	Harry Bichsel
947-1935	Telephone where space is available

MEAL ACCOMODATION: 80-100
SLEEPING ACCOMODATION: approx. 80-100 people
TOILET FACILITIES: 2

CENTRAL BAPTIST CHURCH - corner Union St. & Nickerson Ave., Middleboro

947-4189	Rev. Paul J. West, Pastor
947-3742	Rev. Clifford Jones, Christian Ed. Minister
947-4810	Leo Gauthier, Church Sexton
947-1189	Telephone where space is available

MEAL ACCOMODATION: 150
SLEEPING ACCOMODATION: approx. 150 people
TOILET FACILITIES: 8

NORTH CONGREGATIONAL CHURCH - Plymouth Street, No. Middleboro

697-6489	Rev. Paul E. Lauffer, Pastor
947-1633	Lawrence Holmes
947-2162 (home) 824-4034 (work)	Mrs. Jane Bagdon, church clerk
947-0732	Telephone where space is available

MEAL ACCOMODATION: 100-125
SLEEPING ACCOMODATION: approx. 600 sq. ft. 115 people
TOILET FACILITIES: 2

MIDDLEBOROUGH PUBLIC SCHOOLS

SCHOOL	PRINCIPAL	TEL.	CAPACITY
Middleborough High	Kenneth Johnson Norman MacDonald	947-3110,947-0203 947-9363	2,000
Memorial Junior High	Alan Lindsay Robert H. White	947-1369,947-1979 295-8936	500
Henry B. Burkland	Robert Desroslers Dominic Deleo	947-3150,947-9082 822-6022	500
Union St.	Robert Gross David Perry	947-0856,947-1776 947-3476	200
School St.	Robert Gross Joseph Peters	947-0228,947-1776 947-3059	200
Mayflower	Louis Rizzo William Caswell	947-8873,947-2048 947-4429	700
Rock School	Louis Rizzo Mary Grishey	947-8873,947-0781 947-4488	200
South Middleboro	Louis Rizzo Jean Freitas	947-8873,947-4913 947-1897	200
Green School	Louis Rizzo Jean Freitas	947-8873,947-6264 947-1897	200
West Side	Frank James Jerome Devine	947-1448,947-3396 947-8217	200
Flora Clark	Frank James Bryon Guilford	947-1448,947-0382 947-0172	200
Plymouth St.	Frank James Lawrence Holmes	947-1448,947-0359 947-1633	200
Maude DeMaranville	Frank James Gladys Baker	947-1448,947-9286 947-1157	200
Pratt Free	Frank James Lawrence Holmes	947-1448,947-2927 947-1633	200

SCHOOLS

The school buildings will be used to shelter the evacuees and are listed under the section for HOUSING AND FEEDING.

If the nuclear incident occurs while school is in session, the School Committee on recommendation from the Supt. of Schools will in all probability dismiss the pupils for the duration of the period during which the buildings are used as shelters.

AGRICULTURAL PROTECTION

Upon receiving notification of a nuclear incident at the Plymouth Power Plant, the Plymouth County Agriculture Extension Service in Hanson will be notified. Mr. Charles Simmens, Dairy Livestock specialist and the Town of Middleborough Health Inspector will arrange for the monitoring of milk, dairy herds and commercial farm crops.

Mr. Richard Picone, a Dairy Farmer on Plymouth St. with telephone number 947-2419 will serve as coordinator with the other farmers.

The following is the list of Dairy Farmers, the majority of whom raise their own feed:

PRODUCER	LOCATION	HERD SIZE
Arruda, J.E.K.	Purchase St.	159
Blanchard, F.E.	Thompson St.	87
Brooks, R.	Summer St.	35
Dean Farm	Sole St.	120
Gates, H.C.	72 Thompson St	73
Johnson, F.H.	Thompson St.	62
Picone, R.J.	Plymouth St.	300
Sabalewski, E.E.	Purchase St.	23
Schobel, W.	E. Grove St.	120
Wilbur, G.	Marion Rd.	60

The following is a list of farmers who raise fruit and vegetables commercially:

FARMER	LOCATION	CROP
Benson, C.	Plymouth St.	Fruit & Vegetables
Bruffee, B.	Wood St.	"
Fraser, D.	19 So. Main St.	"
Freitas, J.	Vaugh St.	"
Frost, E.	129 Bedford St.	"
Gates, H.	Thompson St.	"
Picone, R.	965 Plymouth St.	"
Pocius, C.	55 Summer St.	"
Silva, J.	Plymouth St.	"
Standish, A.	Thomas St.	"
Washbum, J.	62 Bourne St.	"
Wiksten, E.	Tispagvin St.	"

AGRICULTURAL PROTECTION-cont'd.

The following is the list of Feed Dealers who supply Middleborough Dairy Farms:

DEALER	LOCATION	TEL.
Boynton Grain & Supply	33 Locust St,Assonet	644-5696
Dean, John O. CO.	670 Washington St., Easton	238-7595
G.D. Feed & Supply	68 Cambridge St, Middleborough	947-2046
Mansfield Feed & Supply	County St., Mansfield	339-2948
Shurleff, George & Son	Lane St., Middleborough	947-3332
Washburn, C.P.,Co.	Cambridge St.,Middleborough	947-3330

The local Veterinarian is Dr. Raymond O. Delano whose office is located on Main Street in Lakeville , telephone 947-1309. He and his staff will be on call as needed.

THE OPERATIONAL PLAN

As per Section 13 of Chapter 639 of the Acts of 1950 the Board of Selectmen has appointed a Civil Defense Director. The Board of Selectmen is responsible for the health and safety of persons and property and exercises this authority during Civil Defense emergencies through the Civil Defense Director.

This Nuclear Incident Response Plan has been developed as a result of a Court Order that requires that a plan be on hand to evacuate the residents of Plymouth who live within 10 miles of the power plant, if a nuclear accident occurs.

Upon notification that a nuclear incident has taken place at the Plymouth Nuclear Plant, the committee consisting of the following will be placed on alert:

Chief of Police, William Warner	947-1212
Fire Chief, Joseph Oliver	947-3100
Town Manager, Anders Martenson	947-0928
Public Works Supt., Weldon Thomas	947-2020
School Supt., Lincoln Lynch	947-3450
St. Lukes Hospital, Matthew Ustas	947-6000
Agricultural Coordinator, Richard Picone	947-2149
Shelter Coordinators, Rev. Charles Sousa	947-0107
Public Information Coordinator, Claire Rockwood	947-1784
Middleborough Emergency Radio Group, Ronald Keith	947-4269

When notification is received that evacuation of Plymouth is to take place, the Reception Center at the Town Hall or Armory will be activated. Personnel will be provided from the Town Managers Office, the Auxillary Police and the Middleborough Emergency Radio Group.

The Chief of Police will dispatch his force to control traffic and direct the evacuees to the Reception Center and the parking lot or shelter buildings. The Auxillary Police will be dispatched by him as necessary.

The Shelter Coordinators, Supt. of Schools Lincoln Lynch and Rev. Charles Sousa will call on the Shelter Managers to activate the shelters.

THE OPERATIONAL PLAN-cont'd.

The Middleborough Emergency Radio Group will provide in-town radio communications over the CB network as needed. Two meter FM Amateur Radio Net will be activated for communications with Civil Defense Area Headquarters and other towns.

The Dept. of Public Works will be notified to prepare trucks for pick up of food, blankets and sanitary supplies. If the incident occurs during snow cover, the Dept. of Public Works will plow parking areas.

The Public Information Coordinator will assemble and disseminate information to and from the news media pertinent to the operations.

The services of St. Luke's Hospital, the Agriculture Coordinator and the Fire Dept. will be utilized as the needs arise.

After the shelters have been occupied, a re-check of the occupants will be made. Special or unusual incidents or needs will be dealt with as necessary.

During the occupancy of the shelters, all of which have kitchens, food will be distributed and refuse will be collected daily.

After a period of three days, in the interest of Public Health, it is anticipated that the shelter occupants will be able to return to their homes, or more suitable quarters.

Shelter Managers and Town Depts. will prepare an account of their expenditures. These will be submitted to Civil Defense Area Headquarters for appropriate action.

N.L. Diegoli

October 1979

TOWN OF PLYMOUTH

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Plymouth with a planning basis for carrying out those activities necessary in the event of a nuclear power station (PNPS) accident which could effect the health and safety of the public.

II. AUTHORITY

A. The Town of Plymouth is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts and Plymouth Town Charter.

B. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

C. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

D. Due to the nature of potential magnitude of a radiological incident at PNPS and the need for quick action on the part of local officials, the triggering/implementation of protective response measures under this plan shall be taken either on the basis of Local Intelligence and or a recommendation from the Commonwealth over the Commonwealth network as described in Annex A of this plan.

III. PLANNING BASIS

A. Situation

1. Plymouth is in the county of Plymouth and located in southeastern Massachusetts and has a resident population of 32,500 and a peak population of @ 77,000 on any given day. It is bordered on the South by the Towns of Wareham and Bourne, on the West by the Town of Carver, on the North by the Town of Kingston and on the East by the Coastal Waters of Cape Cod Bay. There are three (3) main highways passing through the Town. Route 3 and 3A running parrallel, in a North and South direction and Route 44, running East and West.

2. The Pilgrim Nuclear Power Station (PNPS) is a single unit station rated at 1998 Mx (th) and located on the westerm shore of Cape Cod Bay approximately five miles from Plymouth Center. The site contains approximately 528 acres owned by the Boston Edison Company. The nearest residences outside the site boundaries are approximately 2000 feet from the reactor to the northwest and southeast. The site boundary is posted and a security fence erected around the immediate situation area.

3. This plan has been developed to be compatible with the PNPS Emergency Plan and the Massachusetts Civil Defense Agency and Department of Public Health Response Plan for Pilgrim Nuclear Power Station. This plan also conforms to guidelines established by the Nuclear Regulatory Commission.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Plymouth lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the PNPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advise on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Daily Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Pilgrim Nuclear Power Station (PNPS) has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Plymouth lie in Sectors "A", "G", "H", "J", "K", "L", "M", "N", "P", "Q" and "R". (Neither "I" nor "O" are used as sector designators.) (See attached map.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Plymouth Basic Operations Plan as supplemented by this Plan. The Emergency Operations Center for the Town of Plymouth is located in Memorial Hall, 83 Court Street, Plymouth, Mass. Alternate Emergency Operations Center will be at Plymouth airport.

V. ORGANIZATION AND RESPONSIBILITIES

A. Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan. Therefore, these responsibilities, and others peculiar to the Radiological Emergency Response Plan are detailed as follows:

1. Office of Emergency Preparedness

   a. Verify incident

   b. Establish emergency operations at Memorial Hall.

   c. Establish communications with State agencies.

   d. Completion of notification of other Town departments.

   e. Recommend actions to Board of Selectmen.

   f. Coordinate response of all Town Departments.

   g. Provide additional forces to support Town personnel.

   h. Coordination of RADEF Services.

   i. Maintain adequate supply of monitoring equipment.

   j. Maintain accurate logs of monitor activity.

   k. Issue public information.

   l. Requests for State assistance.

   m. Plan updating and document control.

   n. Tests and exercises.

2. Police Department
   - a. Receive and disseminate warning.
   - b. Notify public.
   - c. Control traffic and designation of evacuation routes.
   - d. Protection of personnel and property.
   - e. Control access to affected area.
   - f. Radiological monitoring and reporting.
3. Fire Department
   - a. Notify public.
   - b. Containing or extinguishing of fires.
   - c. Rescue operations.
   - d. Provide ambulance service.
   - e. Assist in traffic control.
   - f. Radiological monitoring and reporting.
4. Harbor Master
   - a. Notify and escort boats to Plymouth Town Wharf.
   - b. Preparation of landing site and escort of personnel to designated reception center.
   - c. Security of boats for decontamination.
   - d. Establish liason with U.S. Coast Guard.
5. Health Department
   - a. Coordinate health and medical services.
   - b. Provide guidance to RADEF Service.
   - c. Maintain inventory of food producers and food storage.
   - d. Administration of radioprotective drugs.

6. Public Works
   a. Notify public.
   b. Provide traffic control equipment.
   c. Provide transportation for emergency personnel.
   d. Provide communication assistance.
   e. Maintain integrity of water supply.
   f. Radiological monitoring and reporting.
7. School Department
   a. Provide protective actions for school population.
   b. Coordinate public transportation.
8. RADEF Service
   a. Coordinate all aspects of RADEF Service.
   b. Maintain and distribute radiological equipment.
   c. Provide and evaluate radiological data.
   d. Supervise decontamination.
   e. Maintain radiological records.
9. Americal Red Cross
   a. Provide staff for shelters.
   b. Assist in decontamination.
   c. Establish first aid station.
   d. Provide social services.
   e. Coordinate assistance of other local service agencies.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Plymouth Police of a "CODE YELLOW" message; either through the State Police, (National Attack Warning System), or via State Civil Defense Area II (Bridgewater), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A -- Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency Area II Headquarters in Bridgewater, Mass.

B. Alert Level

A particular radiological emergency may or may not involve an Alert Level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert Level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A -- Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advise from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;

4. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,

6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

I. INTRODUCTION

A. The warning and notification function involves three (3) phases:

1. Receipt of initial warning from the State or the Power Station;
2. Notification of involved Plymouth officials of a standby, alert or emergency operations condition, and,
3. Notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Plymouth Police Department. Initial warning will come from Pilgrim Nuclear Power Station via telephone.

Back-up and validation messages will be received as follows:

1. State Police to Plymouth Police.
2. Massachusetts Department of Public Health to Plymouth Civil Defense.
3. Massachusetts Civil Defense to Plymouth Civil Defense.

B. Notification of Plymouth Officials

Plymouth Police will begin notification as follows:

1. Plymouth Police will initiate code 100 Major Incident notification procedure.
2. Plymouth Police will notify the following agencies and officials by telephone:

Civil Defense Director

Chairman, Board of Selectmen

Executive Secretary

Fire Department

Department of Public Works

School Department

Harbor Master

Board of Health

Red Cross

The official notification call list and procedures appear as Attachment 1 to Annex A

3. Upon establishment of emergency operations at the Memorial Hall, the Plymouth Civil Defense Director or a designee will validate notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be the Fire Department and Department of Public Works teams, dispatched to established routes throughout Plymouth, to conduct a door-to-door and loud-hailer notification. Vehicle assignments and routes appear as Attachment 2 to this Annex.

2. The Plymouth Police cruiser PA system will function as backup to Fire Department and Department of Public Works vehicles for street by street alert.

3. Radio Stations WBZ (24 hrs. a day, 103 AM), WPLM (1390 AM, 99.1 FM), and WATD (96 FM), will receive public warning messages from both State Civil Defense and Plymouth Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

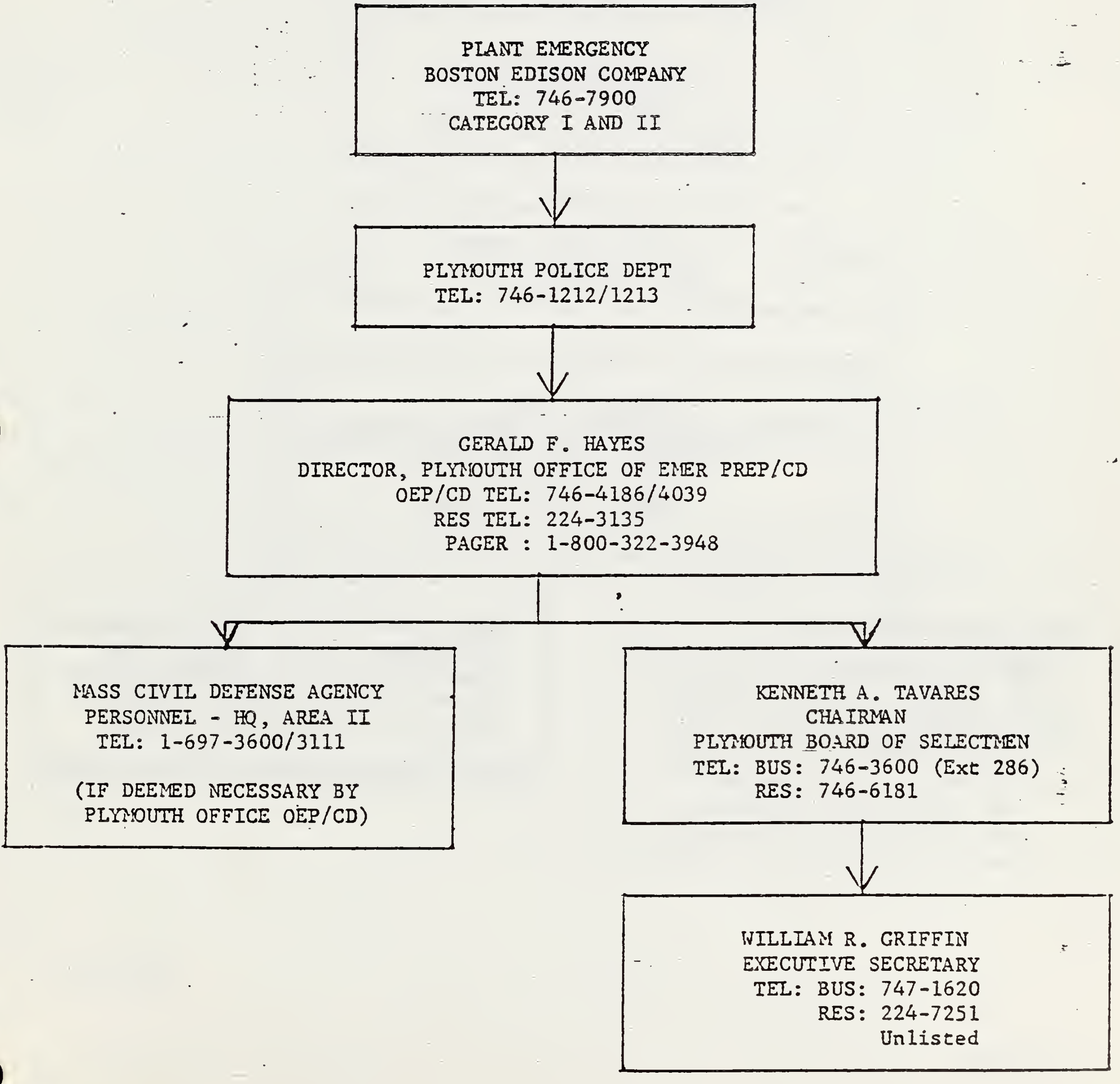
4. Persons using the Miles Standish State Park recreation area will be notified by personnel of the recreation area.

5. Alerting of people using Coastal Beaches for recreation purposes will be accomplished by Plymouth Police, Harbor Master and Park Police personnel.

ANNEX A ATTACHMENT 1 (Sheet 1 of 4)

TOWN OF PLYMOUTH ALERTING PLAN
FOR A
NUCLEAR INCIDENT AT PILGRIM I STATION, PLYMOUTH, MA

CATEGORY I AND II - PLANT EMERGENCY



PLANT EMERGENCY
BOSTON EDISON COMPANY
TEL: 746-7900
CATEGORY I AND II

PLYMOUTH POLICE DEPT
TEL: 746-1212/1213

GERALD F. HAYES
DIRECTOR, PLYMOUTH OFFICE OF EMER PREP/CD
OEP/CD TEL: 746-4186/4039
RES TEL: 224-3135
PAGER : 1-800-322-3948

MASS CIVIL DEFENSE AGENCY
PERSONNEL - HQ, AREA II
TEL: 1-697-3600/3111

(IF DEEMED NECESSARY BY
PLYMOUTH OFFICE OEP/CD)

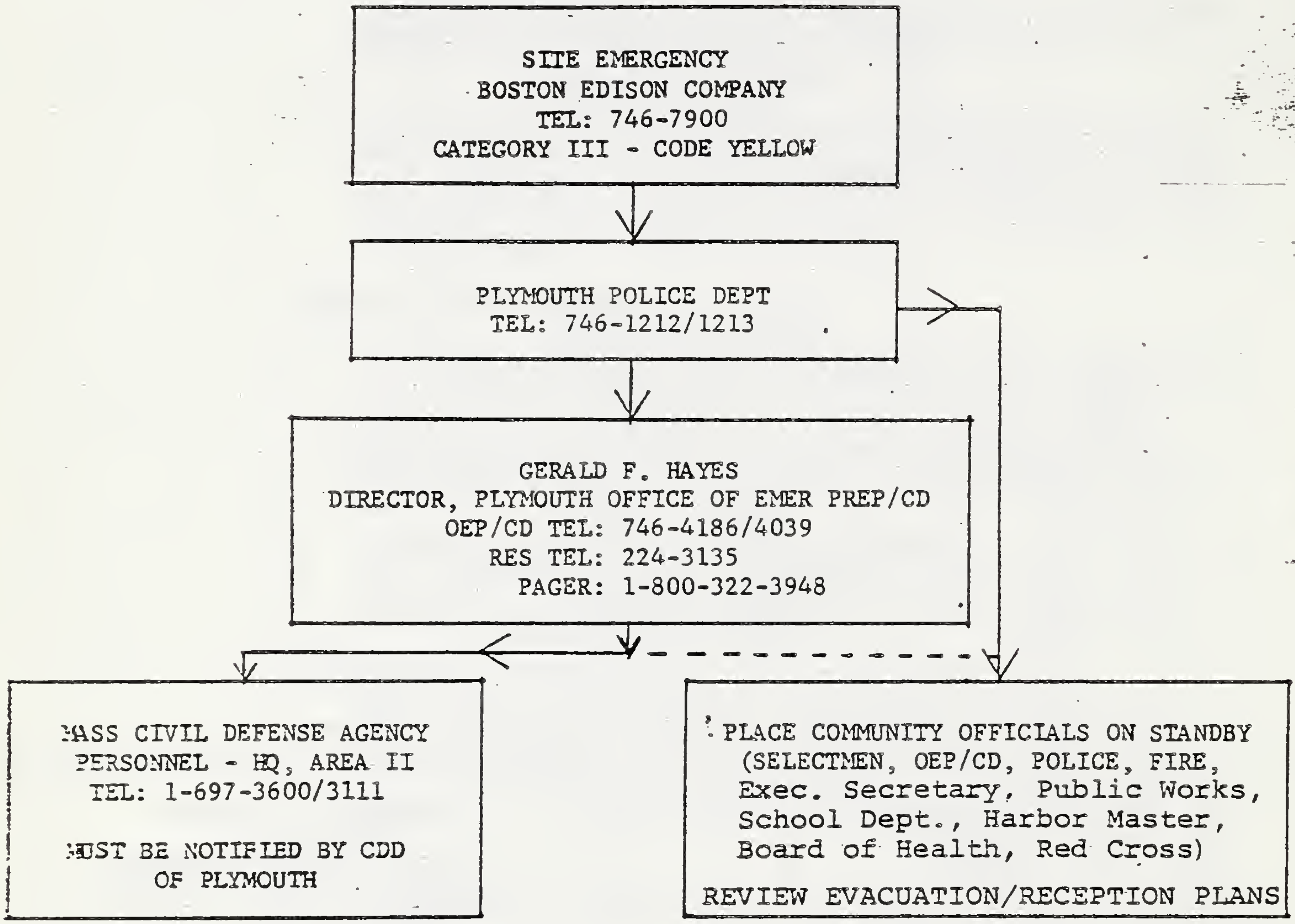
KENNETH A. TAVARES
CHAIRMAN
PLYMOUTH BOARD OF SELECTMEN
TEL: BUS: 746-3600 (Ext 286)
RES: 746-6181

WILLIAM R. GRIFFIN
EXECUTIVE SECRETARY
TEL: BUS: 747-1620
RES: 224-7251
Unlisted

TOWN OF PLYMOUTH ALERTING PLAN
FOR A
NUCLEAR INCIDENT AT PILGRIM I STATION, PLYMOUTH, MA -

CATEGORY III - CODE YELLOW - SITE EMERGENCY

LOCAL CODE 100 MAJOR INCIDENT



SITE EMERGENCY
BOSTON EDISON COMPANY
TEL: 746-7900
CATEGORY III - CODE YELLOW

PLYMOUTH POLICE DEPT
TEL: 746-1212/1213

GERALD F. HAYES
DIRECTOR, PLYMOUTH OFFICE OF EMER PREP/CD
OEP/CD TEL: 746-4186/4039
RES TEL: 224-3135
PAGER: 1-800-322-3948

MASS CIVIL DEFENSE AGENCY
PERSONNEL - HQ, AREA II
TEL: 1-697-3600/3111

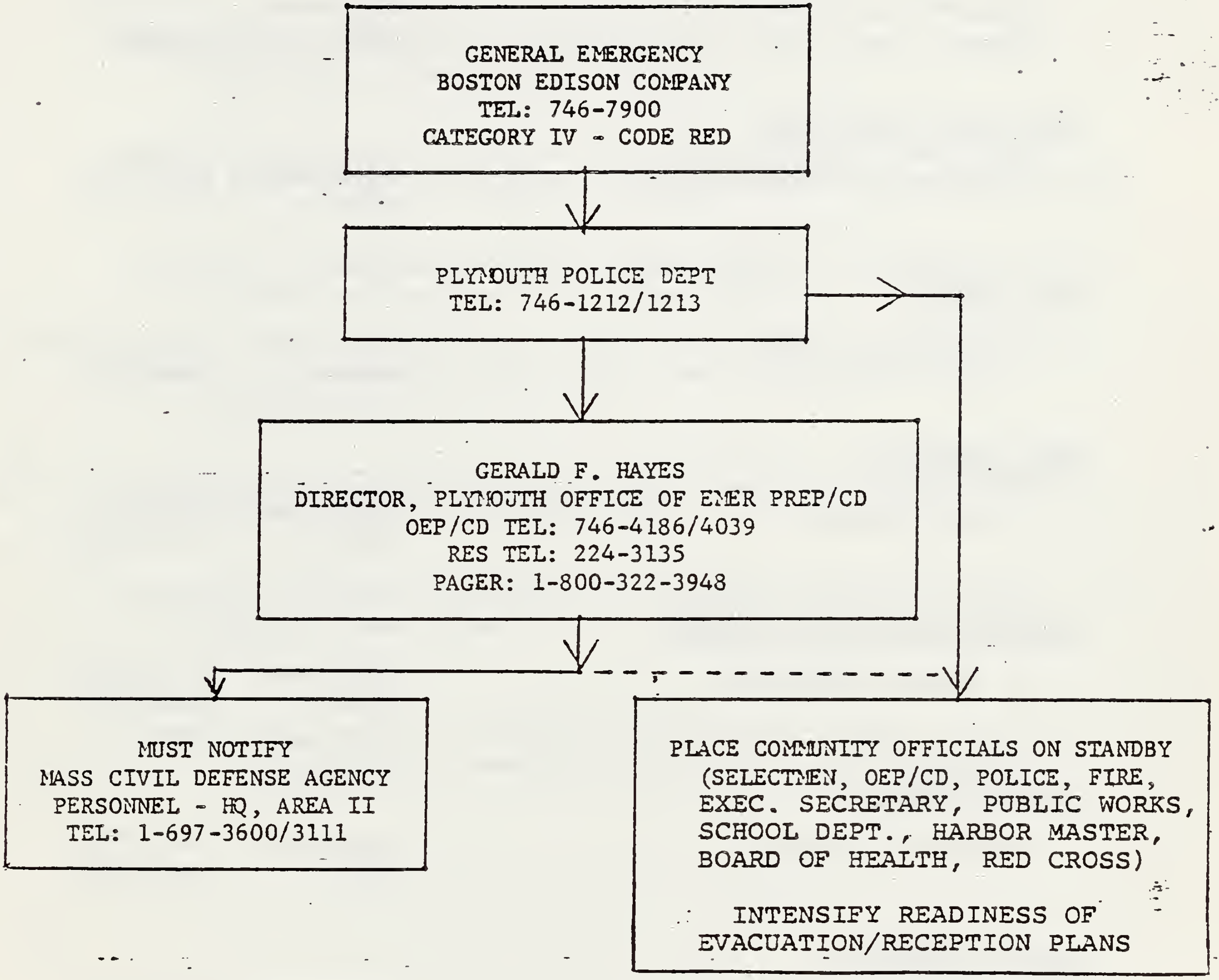
MUST BE NOTIFIED BY CDD
OF PLYMOUTH

PLACE COMMUNITY OFFICIALS ON STANDBY
(SELECTMEN, OEP/CD, POLICE, FIRE,
Exec. Secretary, Public Works,
School Dept., Harbor Master,
Board of Health, Red Cross)
REVIEW EVACUATION/RECEPTION PLANS

TOWN OF PLYMOUTH ALERTING PLAN
FOR A
NUCLEAR INCIDENT AT PILGRIM I STATION, PLYMOUTH, MA

CATEGORY IV - CODE RED - GENERAL EMERGENCY

LOCAL CODE 100 MAJOR INCIDENT



GENERAL EMERGENCY
BOSTON EDISON COMPANY
TEL: 746-7900
CATEGORY IV - CODE RED

PLYMOUTH POLICE DEPT
TEL: 746-1212/1213

GERALD F. HAYES
DIRECTOR, PLYMOUTH OFFICE OF EMER PREP/CD
OEP/CD TEL: 746-4186/4039
RES TEL: 224-3135
PAGER: 1-800-322-3948

MUST NOTIFY
MASS CIVIL DEFENSE AGENCY
PERSONNEL - HQ, AREA II
TEL: 1-697-3600/3111

PLACE COMMUNITY OFFICIALS ON STANDBY
(SELECTMEN, OEP/CD, POLICE, FIRE, EXEC. SECRETARY, PUBLIC WORKS, SCHOOL DEPT., HARBOR MASTER, BOARD OF HEALTH, RED CROSS)

INTENSIFY READINESS OF
EVACUATION/RECEPTION PLANS

Civil Defense Director

Gerald F. Hayes	Business:	746-4186
	Home:	224-3135

Chairman, Board of Selectmen

Kenneth A. Tavares	Business:	746-3600
	Home:	746-6181

Executive Secretary

William R. Griffin	Business:	747-1620
	Home:	224-7251

Fire Chief

Arthur H. Lamb	Business:	746-2212/2213
	Home:	746-3620

DPW Director

Peter O'Connor	Business:	747-1620
	Home:	1-383-9361

Superintendent of Schools

F. Edward Nicholas	Business:	747-1620
	Home:	746-2893

Harbor Master

Angelo G. Brigida	Business:	746-9731
	Home:	746-6451

Health Director

Richard O'Keefe	Business:	747-1620
	Home:	746-0701

Red Cross Chairman

Romeo Carletti	Business:	746-0929
	Home:	746-4461

PROCEDURES FOR PUBLIC NOTIFICATION

Plymouth Fire will notify the public of an accident at Pilgrim Nuclear Power Station using the following routes and assignments.

Headquarter's station (Sandwich St.) will alert sectors N-M-L out to the 5 mile ring.

Station #2 (Seven Hills) will alert sectors P-N-M from 5 mile ring to Plympton, Kingston and Carver town lines.

Station #4 (Bourne Rd.) will alert sectors K-adjacent ½ of J from 5 mile ring to 10 mile ring.

Station #5 (Manomet) will alert sectors K-J-H-G out to 5 mile ring.

Station #6 (Cedarville) will alert sectors J and H from 5 mile ring to 10 mile ring.

Station #7 (North Plymouth) will alert sector P out to Kingston town line.

(NOTE: Residents of Saquish and Clark's Island will be notified by personnel from the Town of Duxbury.)

ANNEX B PROTECTIVE RESPONSE -- EVACUATION, SHELTER AND ACCESS CONTROL

I. INTRODUCTION

Evacuation, shelter, and control of access to affected areas are the primary protective responses of the Massachusetts Department of Public Health and will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include the entire Town of Plymouth, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population, it is possible that a recommendation might be made to evacuate only a small part of one Sector (e.g., Sector H, miles 4 and 5).

Shelter, Access Control, and Evacuation Actions are covered separately as follows:

II. SHELTER

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways:

1. Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or
2. Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Plymouth Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Plymouth Civil Defense Director, in accordance with Annex A.

3. The Plymouth Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area II Headquarters in Bridgewater, for updated advice on length of shelter period, or further necessary protective actions.

III. ACCESS CONTROL

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from Pilgrim Nuclear Power Station or the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Plymouth Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

    Rte. 3 at Rte. 44

    Rte. 3A at Rte. 44

    Rte. 3 at Clark Road

Rte. 3 at 3A Access Road

Rte. 3A at Beaver Dam Road

Rte. 3A at Pilgrim Nuclear Power Station Access Road

Rte. 3A at Rocky Hill Road

Rocky Hill Road at White Horse Beach Road

IV. EVACUATION

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor, the Commissioner, Massachusetts Department of Public Health, the Director, Massachusetts Civil Defense Agency (MCDA), the Plymouth Board of Selectmen, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Plymouth Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of people in the Town of Plymouth, by sectors, will be by the following routes to the designated processing centers as outlined in Attachment 1 to Annex B.

ANNEX B ATTACHMENT 1 (Sheet 1 of 1)

SECTOR	ROUTES	RECEPTION/PROCESSING CENTER
R	Local Roads	Middle School, St. George St. Duxbury
Q	No Plymouth Residents Involved	
P	Rte. 3(N) to Rte. 53 (Hanover)	Hanover Mall
N	Rte. 3(N) to Rte. 53 (Hanover)	Hanover Mall
M&L	East of Long Pond Road: Rte 3(N) to Rte 106(W) to Rte 104	Bridgewater State Teachers College
M&L	West of Long Pond Road: Local Roads (W) to Rte 58(N) to Rte 106(W) to Rte 104	Bridgewater State Teachers College
K	Rte. 58(N) to Rte. 28(N) to Rte. 18(S)	Assawompsett School Main St., Lakeville
J	Rte. 58(N) to Rte. 28(N) to Rte. 18(S)	Assawompsett School Main St., Lakeville
H	5 Mile Ring - Rtes 3 or 3A (S) to Rte 6(W)	Town Hall - Middleboro Nickerson Ave. & Main St.
	5 to 10 Mile Ring - Rte. 6(W)	Town Hall - Wareham 54 Marion Road
G	Rte. 6(W) to Main St. Bourne	Community Center Main St., Bourne

If school is in session students will be evacuated according to preceding routes based on Sector in which school building is located.

(N) = North
(W) = West
(S) = South

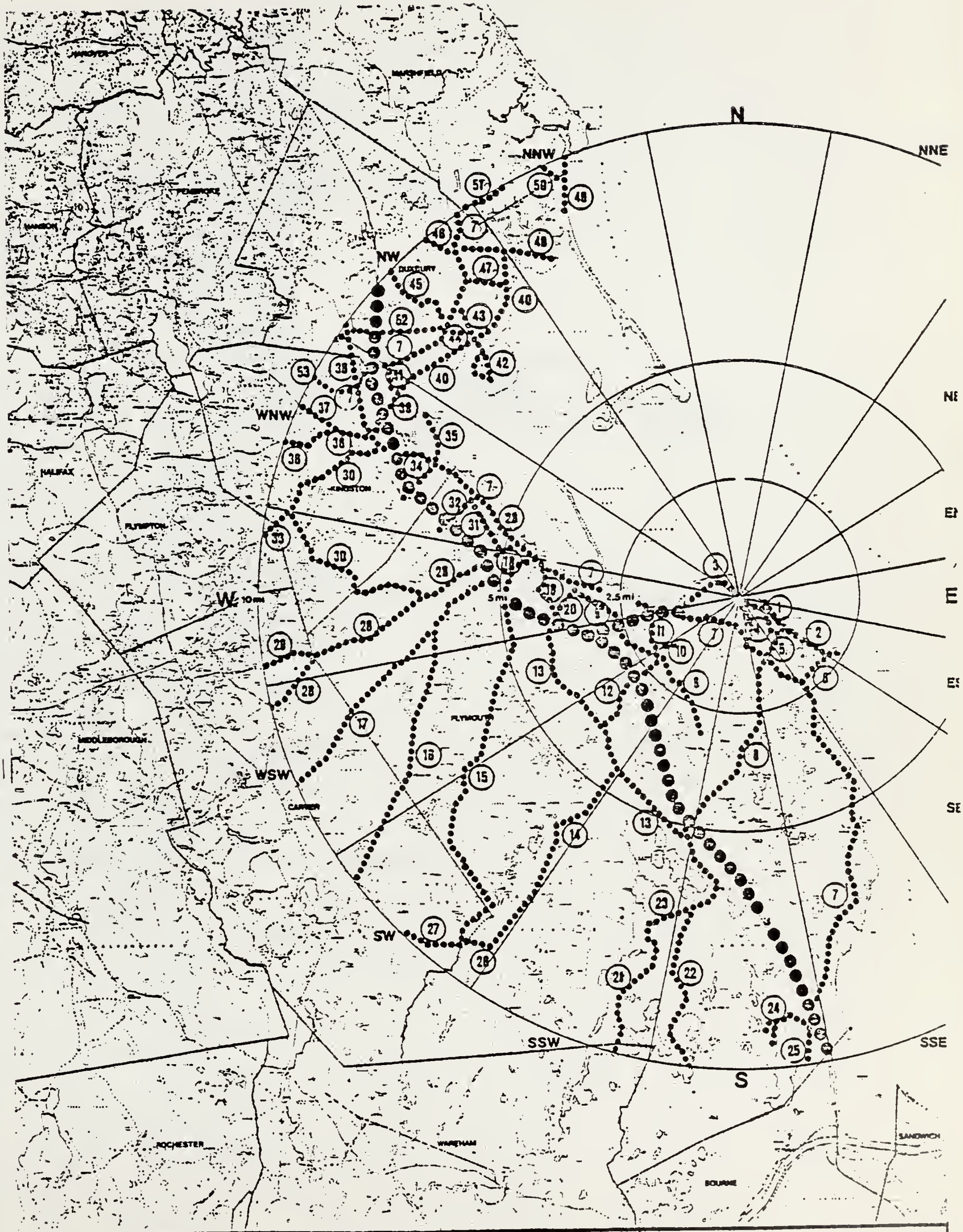

HANOVER
MARSHFIELD
PEMBROKE
HANSON
DUXBURY
HALIFAX
KINGSTON
PLYMPTON
PLYMOUTH
MIDDLEBOROUGH
CARVER
ROCHESTER
WAREHAM
BOURNE
SANDWICH
N
NNE
NE
E
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
10 mi
5 mi
2.5 mi

FIGURE 1

SUGGESTED EVACUATION ROUTES

LEGEND

RT. 3 AND CONNECTOR ●●●●●

SECONDARY ROADS ••••••••••

ATTACHMENT 2A

KEY TO FIGURE 1

IDENTIFICATION OF ROADS

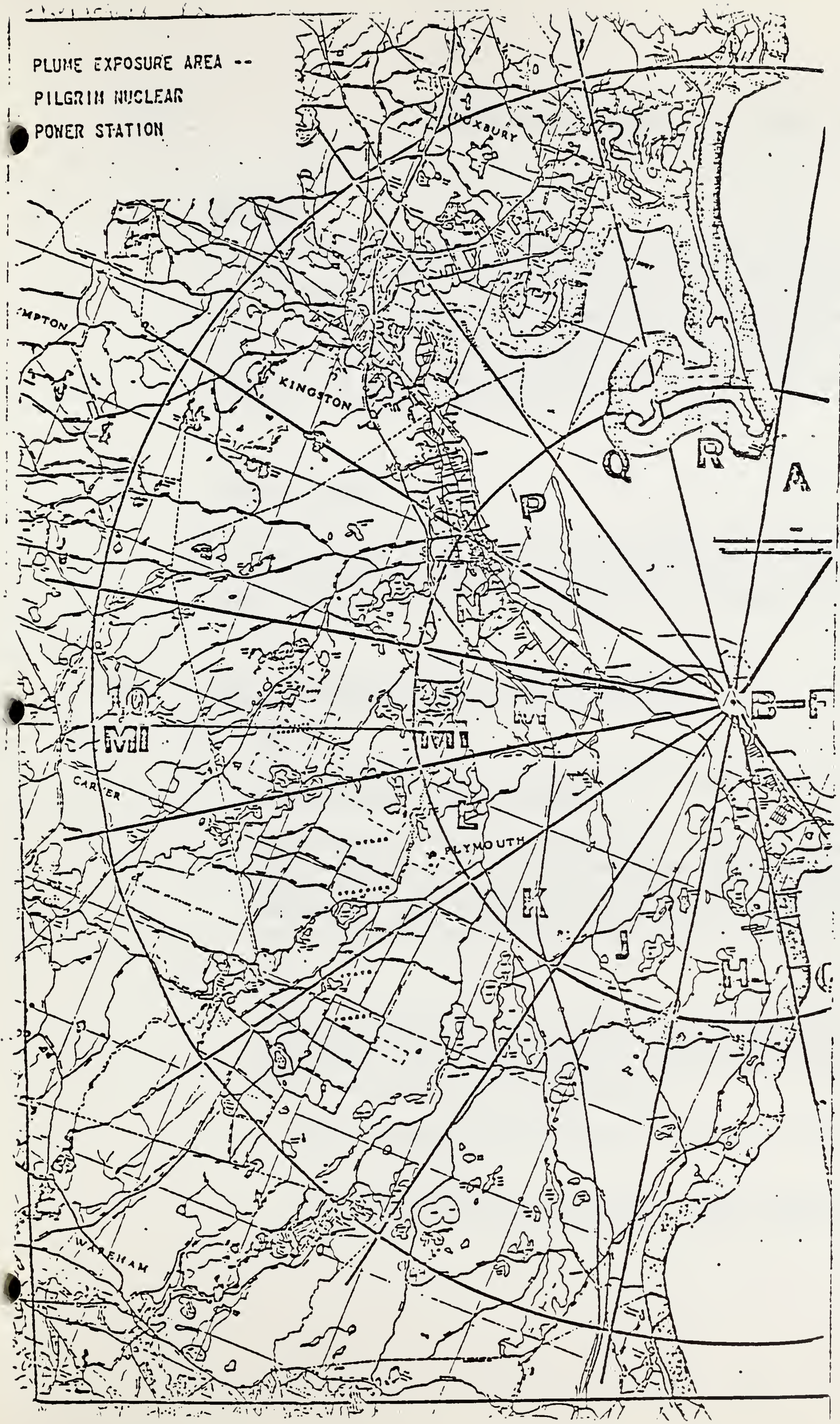
1. Priscilla Rd. (Plymouth)
2. Taylor Ave. (Plymouth)
3. Rocky Hill Rd. (Plymouth)
4. Pilgrim Access Rd. (Plymouth)
5. White Horse Rd. (Plymouth)
6. Manomet Point Rd. (Plymouth)
7. Route 3A (Plymouth, Kingston, Duxbury)
8. Beaver Dam Rd. (Plymouth)
9. Sandwich Rd. (Plymouth)
10. Dolten Rd. (Plymouth)
11. Clifford Rd. (Plymouth)
12. Jordan Rd. (Plymouth)
13. Long Pond Rd. (Plymouth)
14. Alden Rd. - Upper College Pond Rd. (Plymouth)
15. South Pond Rd. - Bare Hill Rd. (Plymouth)
16. Federal Furnace Rd. (Plymouth) - Tremont St. (Carver)
17. South Meadow Rd. (Plymouth) - South Meadow St. (Carver)
18. Summer St. (Plymouth)
19. South St. (Plymouth)
20. Obery St. (Plymouth)
21. Wareham Rd. (Plymouth)
22. Bourne Rd. (Plymouth)
23. Halfway Pond Rd. (Plymouth)
24. Upland Rd. - Carter's Bridge Rd. - Roxy Calhoon Rd. (Plymouth)
25. Herring Pond Rd. (Plymouth)
26. Fearing Pond Rd. (Plymouth)
27. Cranberry Rd. (Carver)
28. Route 44 (Plymouth, Carver)
29. Plymouth Rd. (Carver)
30. Route 80 (Plymouth, Kingston)
31. Standish Ave. (Plymouth)
32. Cherry St. (Plymouth)
33. Elm St. (Kingston)
34. Smith's Ln. (Kingston)
35. Road to Rocky Nook Point (Kingston)
36. Route 106 (Kingston)
37. Route 27 (Kingston)
38. Route 53 (Kingston, Duxbury)
39. Landing Rd. (Kingston)
40. Bay Rd. (Kingston)
41. Loring Ln. (Duxbury)
42. Standish St. (Duxbury)
43. Depot St. (Duxbury)
44. Chestnut St. (Duxbury)
45. Mayflower St. (Duxbury)
46. Route 14 (Duxbury)
47. Harrison St. (Duxbury)
48. Powder Point Rd. (Duxbury)
49. Beach Rd. (Duxbury)
50. Carol Rd. (Duxbury)
51. Route 139 (Duxbury, Kingston)
52. Tobey Garden St. (Duxbury)
53. Winthrop St. (Kingston)

ANNEX B

ATTACHMENT 3

Page 1 of 1

PLUME EXPOSURE AREA --
PILGRIM NUCLEAR
POWER STATION


DUXBURY
MPTON
KINGSTON
Q
R
A
P
N
M
B–F
CARVER
L
PLYMOUTH
K
J
H
WAREHAM

ANNEX C PROTECTIVE RESPONSE -- FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Local backup water supplies from open reservoirs should be monitored before using.

Upon notification to the Town by the State Department of Public Health or Department of Environmental Quality Engineering that any water source is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions;

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of:

1. Dairy farms;
2. Sources of stored feed; and
3. Commercial and large produce farms appear as Attachment 1 to this Annex.

[RESERVED]

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. The capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

A. Supplement and validate intelligence available to State authorities;

B. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

A. Maintaining survey meters and dosimeters in proper working order;

B. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;

C. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency, Area II Headquarters in Bridgewater.

D. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

A. Upon implementation of this plan, the Plymouth Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.

B. The Plymouth Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area II in Bridgewater.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Plymouth Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

A. Maintaining adequate inventories of both high and low range personel dosimeters;

B. Distributing dosimeters during an emergency;

C. Advising Fire, Police and other personnel of exposure guidelines for emergency workers;

D. Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

A. Upon implementation of this Plan, the Plymouth Civil Defense Director will begin distribution of dosimeter equipment at Memorial Hall.

B. Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Memorial Hall to pick up (1) high level and (1) low level dosimeter.

C. The Plymouth Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;

D. The Plymouth Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontaminations stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F

PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuance of public information.

II. RESPONSIBILITY

The Plymouth Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrance of an incident at the Pilgrim Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Pilgrim Nuclear Power Station the Plymouth Civil Defense Director, or his designee, will contact Radio Stations WBZ, WPLM, and WATD to issue appropriate releases. Such releases should be consistent with information received from Area II in Bridgewater, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Pilgrim Nuclear Power Station in Plymouth, Massachusetts. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat -- DO NOT GO TO THE PLANT -- DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Boston Edison Company for its Pilgrim Nuclear Power Station in Plymouth, Massachusetts. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat -- THIS IS AN EMERGENCY ALERT -- STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Boston Edison Company for its Pilgrim Nuclear Power Station in Plymouth, Massachusetts. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions. Do not call or go to the plant area. Do not evacuate unless ordered/ Stay tuned for further information.

The Plymouth Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to reentry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

A. Public Safety

The deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

B. Social Services

The provision of food, shelter, clothing and routine medical services for evacuees.

C. Emergency Medical Services

Includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with Plymouth officials, social services would be provided with the support of the Red Cross and private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Pilgrim Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Plymouth Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Plymouth Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in:

Marshfield

Hanover

Bridgewater

Lakeville

Wareham

Bourne

The Plymouth Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

ANNEX H — PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Plymouth Civil Defense Director

The Plymouth Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures of plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for Towns in the Pilgrim Station area.

APPENDIX 1 OFFICE OF EMERGENCY PREPAREDNESS

I. NOTIFICATION

A. Upon notification by Plymouth Police of an accident at Pilgrim Nuclear Power Station the Director of Office of Emergency Preparedness/Civil Defense shall:

1. Contact Pilgrim Nuclear Power Station and/or Massachusetts Department of Public Health and verify accident and type.
2. Activiate E.O.C. at Memorial Hall.
3. Establish communication with Pilgrim Nuclear Power Station, Massachusetts Department of Public Health, Massachusetts Civil Defense Agency, Nuclear Regulatory Commission, and all Town Departments.

B. Operations

1. Provide Massachusetts Department of Public Health with available radiological and meteorological data.
2. Advise Massachusetts Civil Defense Agency of unusual problems and request assistance.
    a. All requests for state assistance shall be directed to Massachusetts Civil Defense Agency.
3. Make recommendations to Selectmen as to protective actions.
    a. Based on information from Pilgrim Nuclear Power Station, Massachusetts Department of Public Health and Massachusetts Civil Defense Agency.
4. Coordinate, on behalf of Selectmen, response of all Town Departments.
5. Arrange for clerical support to maintain accurate logs for future documentation.
    a. Clerical staff to be drawn from Town Hall personnel.
6. Provide assistance whenever possible to all responding agencies.
7. Coordinate with RADEF Officer to insure radiological monitoring of all emergency personnel.

8. Coordinate public information with Pilgrim Nuclear Power Station and Massachusetts Civil Defense Agency.

    a. All official information must be consistent with Massachusetts Civil Defense Agency's recommendations.

9. Distribute through RADEF Service monitoring equipment and dosimeters.

    a. Emergency personnel shall carry 1 high range dosimeter and 1 low range dosimeter.

C. Plans

1. The Director OEP/CD shall update this plan semi-annually and make certain that all interested parties are informed of any changes.

2. The Director OEP/CD shall conduct or participate any tests as may be required by the N.R.C. to determine the readiness of Town Forces to respond to any radiological accident in the Town of Plymouth.

3. The Director OEP/CD shall distribute a copy of this plan to all Town Departments and interested agencies.

APPENDIX 3 FIRE DEPARTMENT

I. NOTIFICATION

A. Upon notification of an accident at Pilgrim Nuclear Power Station by Plymouth Police or Plymouth Civil Defense, the Fire Chief or his designee will report to the E.O.C. and provide the following support.

1. Notify all stations of the accident and place them on standby.
2. Have stations notify all off duty personnel and have them report as soon as possible.
3. Notify public as required using procedures as shown on Attachment 2 Annex A.
4. Appraise all key officers of current situation.

II. PROTECTIVE ACTIONS

A. The Fire Chief or his designee shall advise all department personnel of any protective actions recommended by Civil Defense.

III. SUPPORT

A. Advise Civil Defense of possible fire problems in affected area.

B. Provide support for evacuation and traffic control as needed.

1. This assignment shall not detract in any way from fire fighting forces necessary for primary mission.

C. Provide rescue services as needed.

D. Provide ambulances to transport sick and injured as needed.

E. Request assistance through normal mutual aid arrangements, if required.

F. Make necessary assignments of equipment and personnel to evacuated area to minimize potential fire hazards to homes and buildings.

G. Coordinate with RADEF Officer as to protective measures necessary for safety of fire fighters in evacuated area.

(NOTE: At no time shall any fire personnel exceed radiation dose limits established by EPA/PAGS.)

APPENDIX 4 HARBOR MASTER

I. NOTIFICATION

A. Upon notification by Plymouth Police or Plymouth Civil Defense of an accident at Pilgrim Nuclear Power Station the Harbor Master shall.

1. Notify all off duty personnel and have them report as soon as possible.

2. Notify U.S. Coast Guard - Scituate, and maintain constant communication via channel 16 VHF marine radio.

3. Notify all boats in the vicinity of Pilgrim Nuclear Power Station and Plymouth Harbor.

4. Assist Beach Police in alerting people on beaches using P.A. system on patrol boat.

II. PROTECTIVE ACTIONS

A. The Harbor Master shall advise all department personnel of any protective actions recommended by Civil Defense.

III. OPERATIONS

A. Establish a landing area at the Town floats for boats to unload all persons on board.

B. Establish a security zone in mooring area to moor boats suspected to be contaminated.

C. Direct boats to Town float.

D. Direct passengers to Memorial Hall for monitoring and possible decontamination.

E. Tow boasts to mooring sites for possible decontamination.

F. Request assistance from Civil Defense as needed.

G. Coordinate with RADEF Officer as to protective measures necessary for safety of harbor personnel in affected area.

NOTE: At no time shall any harbor personnel exceed radiation dose limits established by EPA/PAGS.

I. NOTIFICATION

A. Upon notification from Plymouth Police or Plymouth Civil Defense the Superintendent of Schools or his designee shall report to E.O.C. and provide following support.

1. If schools are in session, notify all School Principals and advise them to keep all students and school personnel in-doors and to wait for further instruction.
2. Contact all companies with contracts for transporting students and advise them to make ready buses for possible evacuation.
3. If school is not in session the buses will be used for possible public transportation.

II. PROTECTIVE ACTIONS

A. The Superintendent or his designee shall advise all school personnel of any protective actions recommended by Civil Defense.

B. Should evacuation of all schools become necessary it shall be carried out in accordance with the following procedures:

1. All elementary schools are to be given priority.
2. School buses transporting students to Hanover Mall are expected to return to Plymouth for possible use as public transportation, if practical.
3. Evacuation routes and reception area assignments for each specific school are shown on attached sheet.
4. Additional buses are available from Plymouth & Brockton Street Railway, if needed.

PLYMOUTH SCHOOLS
EVACUATION ROUTES AND RECEPTION AREAS

SCHOOL & SECTOR		ROUTES	RECEPTION CENTER
Hedge School	P-6	Cherry St. to 3N to Rte. 53 Hanover	Hanover Mall
Cold Spring School	P-6	Rte. 44W to Rte. 3N to Rte. 53 Hanover	Hanover Mall
Oak St. School	N-5	Rte. 44W to Rte. 3N to Rte. 53 Hanover	Hanover Mall
Mt. Pleasant School	N-5	Whiting St. to South St. to Rte. 3N to Rte. 53 Hanover	Hanover Mall
West School	N-8	Rte. 80 to Rte. 3A South to 3N to Rte. 53 Hanover	Hanover Mall
Federal Furnace School	M-8	Local Roads (W) to Rte 58 (N) to Rte 106 (W) to Rte 104	Hanover Mall
Manomet Elementary School	G-3	Point Rd. to Rte. 3A North to Beaver Dam Rd. to Rte. 3S to Rte. 6W to Bourne	Bourne Community Center
Indian Brook School	H-5	Rtes 3 or 3A (S) to Rte 6 (W)	Town Hall Middleboro
South School	J-8	Bourne Rd. to Rte. 6W to Rte. 28N to Rte. 18S	Assawompsett School Main St. Lakeville
Nataniel Morton School	N-5	South St. to Rte. 3N to Rte. 53 Hanover	Hanover Mall
P.C.I.S.	M-5	Rte. 3N to Rte. 3A North (Howard Johnsons) to Rte. 106 to Rte. 104	State College Bridgewater
P.C.H.S.	N-4	South St. to Rte. 3N to Rte. 53 Hanover	Hanover Mall

School bus contractors serving Plymouth are:

Town Brook Service Station	746-4820
A. L. Crowell Inc.	224-3638
Russell Holmes Trans.	866-4424

Note: Approximately 30 minutes needed for first buses to roll after calling contractor.

TOWN OF PLYMPTON

RADIOLOGICAL EMERGENCY RESPONSE PLAN

PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Plympton with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

AUTHORITY

a. The Town of Plympton is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority during civil defense emergencies through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950 as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Plympton Fire (via NAWAS--see Section VI.6 below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III PLANNING BASIS

A. Situation

1. Pilgrim I is located in the Town of Plymouth, Massachusetts in Plymouth County on the west shore of Cape Cod Bay. The site contains about 528 acres owned by the Boston Edison Company. The land is bounded on the north, south and west byprivately-owned land and on the east by Cape Cod Bay. Site co-ordinates are approximately 41°55' north latitude and 70°35' west longitude.

2. The Town of Plympton, the center of which is approximately 16 miles NNW of the Pilgrim NPS. could be affected by a major accident at the Pilgrim NPS. Plympton is bordered by Middleboro, Carver, Kingston, Pembroke and Halifax. in southeastern Massachusetts.

   Principal highways are Route 58 running north and south through the town and Route 106 which runs east and west. Roads in town are used as access and exit routes for Routes 44 and 80.

3. The population of Plympton is approximately 1800. The town is the site of the Dennett Elementary School which has 256 students. There is little or no seasonal change in population. Halliday Lithograph is situated in the Snappit area, employing   workers per shift, operating on three shifts over a 24 hour period.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Plympton lies with the emergency forces of the town. The Boaed of Selectmen has designated and will support a local Civil Defense Director and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the town. Such notification wil be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies and received by the town as indicated in Annex A, Warning and Notification.

CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency and what public protective actions are required;
2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;
3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out and
4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;
2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;
3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated and of milk which may have become contaminated through ingestion by dairy cattle of contaminated pasturage and
4. Soil can become contaminated from particulates from a passing plume or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling access to affected areas
4. Pasturage and dairy animal feed control
5. Control of milk, other foodstuffs and water
6. Administration of radioprotective drugs

D. Planning Zones

For planning purposes, the area around the Pilgrim I NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true north and sectors are designated alphabetically in a clockwise direction. Parts of Plympton lie in Sectors "N" and "P". (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Plympton Basic Operations Plan(which is now in the process of being prepared) as supplemented by this plan. The town house will be utilized as the Emergency Operating Center.

V ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan. These responsibilities and others peculiar to the Radiological Emergency Response Plan will be found in the Annex. (See the Plympton Emergency Response plan.)

VI IMPLEMENTATION

A. Standby Level

Upon receipt by Plympton police of a CODE YELLOW message through State Civil Defense, Area II Bridgewater, the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A--Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated and communications established with the Massachusetts Civil Defense Agency in Bridgewater.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A--Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;
4. Requesting state and/or federal assistance in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan and its radiological emergency supplements;
5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area and
6. The taking of all other steps necessary to minimize loss of life, injuries and damage to property.

INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition and 3) notification of the public of the situation and any recommended protective action.

II RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Police Department. Initial warning will come from State Police in Middleboro. Back-up and validation messages will be received as follows:

1. State Police to Plympton Police
2. Massachusetts Civil Defense to Plympton Civil Defense

Red phones and monitors should be used to acknowledge initial alerts.

B. Notification of Local Officials

Local police and fire departments will begin a simultaneous notification as follows:

1. Local police will initiate Signal Major Incident notification procedure.
2. Local fire will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department, Kingston
Dennett Elementary School
Board of Health
Carver Ambulance

Upon establishment of emergency operations at the town house, the local Civil Defense Director or a designee will determine validate notification and, where necessary, assume responsibility for completion of notification.

C. **Public Notification**

1. The primary mechanism for public notification will be police and fire department teams dispatched to the Spring Street and Brook Street areas which fall within the ten-mile radius to conduct a door-to-door and loud-speaker notification.

2. Radio Stations WPLM and WATD will receive public warning messages from both state and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

3. The main population will be warned by the Fire Department siren which will signal Box 222, four rounds twice with a five minute interval.

ANNEX B PROTECTIVE RESPONSE - EVACUATION, SHELTER AND ACCESS CONTROL

INTRODUCTION

Evacuation, shelter and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon protective action guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected, to continue.

While notification, evacuation, shelter and reception plans include approximately 20% of the Town of Plympton, it is more likely that protective actions would be recommended for those areas nearest the power station (i.e. the Snappit section).

Plans involve the potential evacuation of approximately 20% of the Plympton population to the Pymptom Town House. The location of the Town House would provide direct movement northwest away from the nuclear plant for the potentially affected ten mile zone of the Town of Plympton. Access control and evacuation actions are covered separately below.

Evacuees would travel Northwest from Brooks and Mayflower Road to Route 58N (Main Street) to the Plympton Town House.

II SHELTER

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the local Civil Defense Director should determine what mix of public and private shelter is advisable.
2. Public warning messages will be selected or formulated, and dispersed by the local Civil Defense Director, in accordance with Annex A.
3. The local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area II Headquarters in Bridgewater, for updated advice on length of shelter period, or further necessary protective actions.

ACCESS CONTROL

General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health through the Massachusetts Civil Defense Agency.
2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.
3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway department. Additional support will be available through Civil Defense.

EVACUATION

General

Evacuation involved notification to the public (Annex A) living within an affected area to leave their homes, business or recreation area and report to the registration center at the Town House. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health or

Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

   a. Northwesterly from Brooks Street and Mayflower Road to Route 58N

   b. There are no schools within the Area to be evacuated.

V RECEPTION CAPABILITY

The Plympton Town House has potential capacity for maximum of one hundred evacuees. Additional back-up shelter is available at the Dennett Elementary School with a maximum capacity for sheltering one hundred twenty-five evacuees; the Fire House with maximum capacity for sheltering fifty evacuees; the old Grange Hall with a maximum capacity for fifty evacuees; the Upland Sportsmen's Club with a maximum capacity for sheltering fifty evacuees.

Plympton has the capability for feeding all of these evacuees.

For purposes of this plan initial reception radiological monitoring will be conducted at the Plympton Town House. Other shelters mentioned above are all in close proximity to the Town House. Persons/vehicles found to be contaminated will be diverted to the Dennett Elementary School for decontamination and processing. Following decontamination evacuees will be registered and sheltered within the school. Contaminated vehicles will be parked and washed down in the school's parking area. The Town of Plympton by making use of all the afore-mentioned facilities/reception capability has adequate means to care for its own citizens with the support of the Massachusetts Civil Defense Agency.

I GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs and particularly of milk which can be contaminated by the ingestion of cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing a reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk as well as the analysis of water. These provisions are made on a statewide basis.

III LOCAL ACTIONS

A. Water

Because the town of Plympton does not depend on reservoirs or on a special water district but rather on private water wells, the water in this town should not be contaminated by any radioactive release. Samples of the water should be checked, however, and the Civil Defense Director will direct implementation of appropriate action.

B. Milk

There are no commercial dairy farms in Plympton but there are many small family farms in town which raise dairy cattle. One large area of land is devoted to the cultivation of corn for use as food for dairy cattle in another town. Another area is devoted to the growing of hay.

C. Other Foodstuffs

There are several large acreage commercial cranberry bogs in Plympton. There are two commercial vegetable farms in the town. In addition, more than half of the families in towncultivate home vegetable gardens.

It shall be the responsibility of the Plympton Board of Health to maintain awareness of the private and commercial growers of cranberries, vegetables and fodder and to assist in disseminating public information relative to necessary actions.

I GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities and
2. Verify readings of personal dosimeters worn by emergency workers.

II RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order.
2. Arranging appropriate training for personnel of the town and volunteers in radiation monitoring.
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data and providing intelligence to Massachusetts Civil Defense Agency Area II Headquarters.
4. Supporting, where necessary, monitoring requirements of registration centers.

III PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitoring activity and periodically report to Massachusetts Civil Defense Agency Area II Headquarters.

GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director with the support of the Police and Fire Departments. This responsibility includes:

1. Maintaining adequate inventories of both high and low range personal dosimeters.
2. Distributing dosimeters during an emergency.
3. Advising fire, police and other personnel of exposure guidelines for emergency workers.
4. Assisting state authorities in the establishment and operation of monitoring and decontamination centers.

III PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will begin distribution of dosimeter equipment at the town house.
2. Chiefs of services will direct all emergency workers assigned to potentially hazardous areas to the town house to pick up (1) high level and (1) low level dosimeter.
3. The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CDV 700) to validate dosimeter readings.
4. The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

RESPONSIBILITY

The Plympton Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrance of an incident at the Pilgrim I Nuclear Power Station.

PROCEDURE

Upon notification that there has been an incident at the Pilgrim I NPS the Plympton Civil Defense Director, or his designee, with contact Radio Stations WPLM in Plymouth and Channel 6 WTEV in New Bedford (television) to issue appropriate releases. Such releases should be consistent with information received from Area II Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Pilgrim I for its Plymouth Nuclear Power Station in Plymouth, Mass. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/television station for further information. Do not go to the plant area. Repeat -- DO NOT GO TO THE PLANT -- DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING -- PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Pilgrim I for its Plymouth Nuclear Power Station in Plymouth, Mass. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat -- THIS IS AN EMERGENCY ALERT -- STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Pilgrim I for its Nuclear Power Station in Plymouth, MA. If a public hazard develops you will be notified via this radio/television station and/or civil defense officials and/or police and fie personnel. If you are asked to evacuate, please do so according to indtructions. Move with caution and follow directions. Do not call or go to the plant area. Do not evaucate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Plympton Civil Defense Director will issue further information to the public periodically over radio and televeision to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.
If an evacuation is required, evacuees should be advised to stay tuned to radio and television for information relative to re-entry.

I GENERAL

Support Services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1. Public Safety-- the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.
2. Social Services-- the provision of food, shelter and clothing and routine medical services for evacuees.
3. Emergency Medical Services--includes transport of the sick and injured, hospital care and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of the Pilgrim I Nuclear Power Station in Plymouth.

II RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available through mutual aid arrangements or from the State Police, National Guard or other state resources. Requests for state assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part following an emergency, these services will be delivered at reception centers in Plympton and elsewhere outside of the town. (Reception Centers are designated in the state Civil Defense Area Plan for the Pilgrim I area.)

The Civil Defense Director will coordinate with the Red Cross and state Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Plympton is under contract to the town of Carver for ambulance service. That town will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency, Area II Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

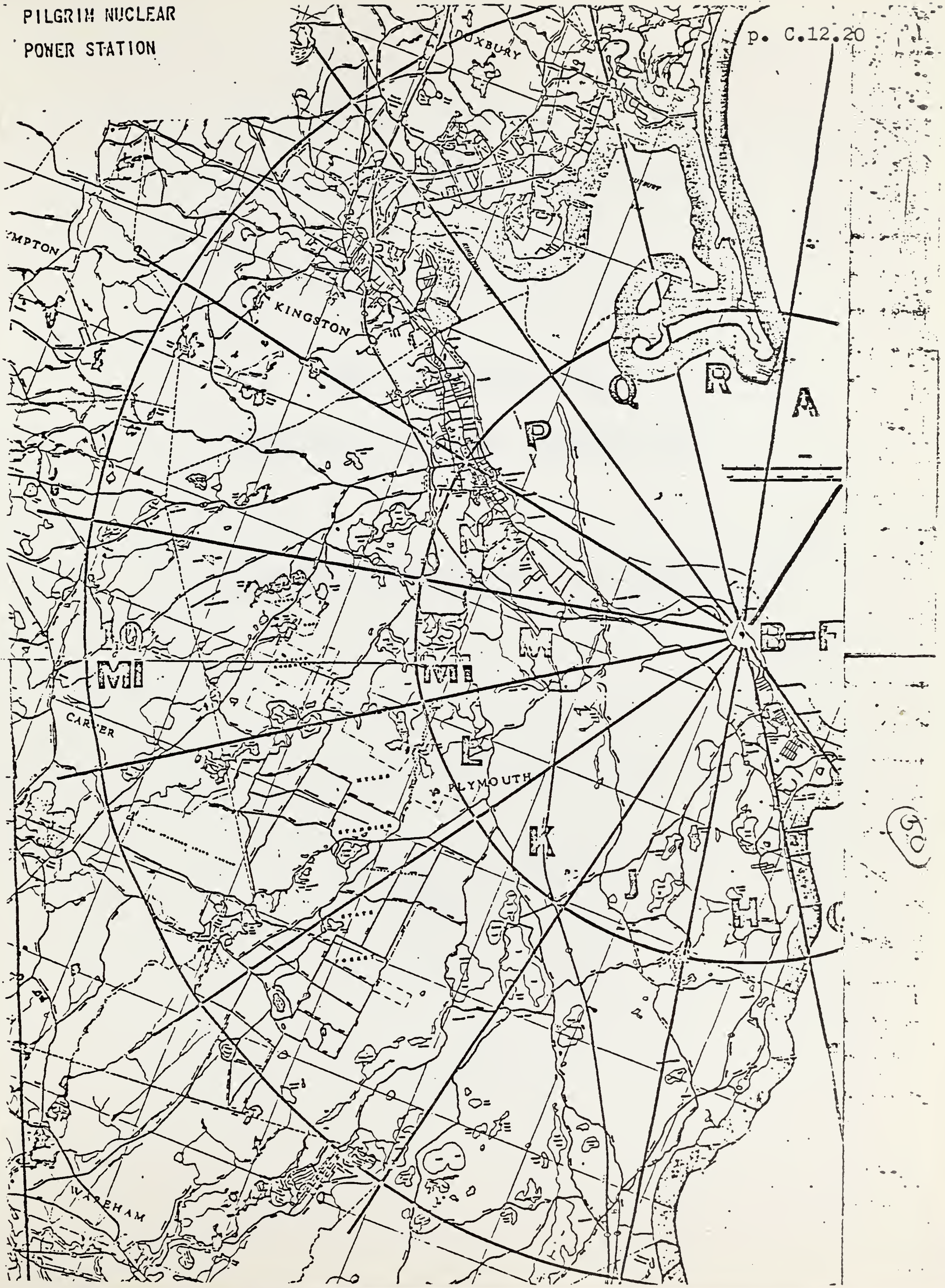
B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Pilgrim I area.

PILGRIM NUCLEAR
POWER STATION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TOWN OF WAREHAM, MASS.

RADIOLOGICAL EMERGENCY RESPONSE PLAN

A PLAN FOR WAREHAM RESPONSE TO A NUCLEAR INCIDENT AT THE PLYMOUTH NUCLEAR POWER STATION

Prepared & Issued: Nov. 5, 1979.

By: Civil Defense Agency
Town of Wareham
Town Hall
Wareham, Mass. 02571

Tel: (617) 295-9336

TOWN OF WAREHAM, MASS.

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. Purpose:

THIS PLAN IS FOR WAREHAM RESPONSE TO A NUCLEAR ACCIDENT OR INCIDENT AT THE PILGRIM REACTOR SITE IN PLYMOUTH, MASS.

This document is designed to serve as a comprehensive plan which outlines in detail the official duties and response of Town of Wareham, Massachusetts, administrative officers, boards, departments, and other agencies in the event of a nuclear accident or incident at the Pilgrim Nuclear Power Station in Plymouth, Mass. It is assumed that such an accident could affect the health, welfare, and safety of people in the Town of Wareham.

Because only three houses in the northeast corner of Wareham are within the 10-mile radius of the Nuclear Power Station in Plymouth, this Plan does not stress evacuation procedures for Wareham people. This Plan will concern itself with 3 major problems:

(1) Routing Plymouth evacuees through Wareham over our highways to other distant towns.

(2) Providing some emergency shelter for some Plymouth evacuees for a limited time.

(3) Precautions in a gaseous plume "ingestion pathway."

II. Authority:

1) The Town of Wareham is governed by a Board of Selectmen and an open Town Meeting as provided in the Mass. General Laws. The administration of town business and affairs is carried out by a Town Administrator, appointed by the Selectmen under the provisions of the Wareham Home Rule Charter adopted in 1977.

2) The Selectmen appointed a town Civil Defense Director in accordance with Section 13 of Chapter 639 of the Acts & Resolves of 1950, as amended. The Board of Selectmen is responsible by law for the health, welfare, and safety of persons and property, and they exercise this authority during civil emergencies through the Town Administrator and the Civil Defense Director.

3) This Radiological Emergency Response Plan was developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act (Chapter 639 of the Acts of 1950, as amended) and is consistent with the State Comprehensive Emergency Response Plan and its relevant attachments on radiological emergencies.

4) Due to the nature and potential magnitude of a radiological incident at a nuclear reactor power plant, there is a need for prompt response by well-informed local community officials. A local STATE OF EMERGENCY will be considered to exist on receipt of first notice of an incident at the Plymouth Nuclear Power Station. Official notice will be first received by the Wareham Police Station from the State Police Troop D Barracks in Middleboro.

5) Due to the seriousness of a state of emergency involving a nuclear incident, the Wareham Civil Defense Director or his assigned deputy will be informed at once by the Wareham Police and he will at once call back and double check the notice before proceeding.

III. Planning Basis: Part A. Situation:

1) Wareham is located in southeastern Massachusetts, in Plymouth County, at the head of Buzzards Bay. It is a rural seaside community with excellent boating, fishing, and swimming and thus has become a resort area with a large number of summer cottages. The winter population is normally about 16,000 but this increases approximately 3-fold during the summer months.

2) The Plymouth Nuclear Power Station is located 16 miles from the center of downtown Wareham. A tiny part of the northeast corner of Wareham is within the 10-mile radius of the nuclear reactor but only three (3) houses are located here. However, all of Wareham is well within the 10 to 50 mile "ingestion pathway" of the nuclear site.

3) Wareham has been designated a "host community" which will provide congregate shelter for approximately 3,000 residents of a certain small section of south Plymouth known as Sector H on the State Comprehensive Emergency Response Plan.

4) The following highways pass through Wareham:

Route 6 (From Bourne thru Wareham to Marion and South).

Route 28 (From Bourne thru Wareham to Middleboro and the West and North).

The following highways terminate in Wareham:

Route 195 (comes in from the South).

Route 25 (comes in from the West).

Route 58 (comes in from the North).

Three important but minor narrow roads connect the southern edge of Plymouth with Wareham. These roads are much used by local residents and thus could be expected to carry significant numbers of evacuees fleeing from a nuclear incident in Plymouth. These are:

Barker Road (White Island area).

Tihonet Road (from Plymouth via Carver).

Charlotte Furnace Road (from Plymouth via Carver).

5) Wareham does not have an airport.

6) A railway in current daily use passes through Wareham but passenger service has not yet been restored. Presumably passenger cars could be dispatched from the Boston or Providence-Attleboro area for loading evacuees in the Wareham or nearby Buzzards Bay area if backup is needed to normal automobile and bus transportation. Boston and Providence are about one hour away by rail.

7) There are no hotels, no major motels, no college dormitories, no summer camps, no prisons, no abandoned or surplus military bases, and no armories in Wareham and thus such traditional sources of possible sleeping quarters cannot be utilized in town by Plymouth evacuees.

8) Wareham has one small community hospital with about 80 beds.

9) Wareham has three (3) fire departments, an ambulance service with trained Emergency Medical Technicians (EMT's), an Underwater Rescue Team, and an Auxiliary Police Force under Civil Defense administration but operating on orders from the Chief of Police of Wareham.

10) The reception area in Wareham for Sector H evacuees for shelter will be the High School-Town Hall area on Route 6, on the south edge of Wareham center. Signs will be erected.

III. PLANNING BASIS. Part B. Assumptions:

1) It is assumed that the Town of Wareham will be promptly and properly notified through the established Civil Defense system of any nuclear incident at the Plymouth NPS which has become, or threatens to become, a danger to people in Wareham or which would require Wareham to receive some evacuees. It is assumed that such notification will follow the format and procedures outlined in Annex A, Warning and Notification, which is a part of this Plan.

2) It is assumed that the State government of Massachusetts will properly call for and declare a State of Emergency or will properly declare in some other manner that the full legal provisions of the State Civil Defense Act are in force.

3) It is assumed that there will be a great deal of confusion and misinformation in the event of even a relatively minor nuclear incident at the Plymouth NPS but that the State lines of communication will attempt to provide clear and accurate information through the Civil Defense system.

4) It is assumed that local Wareham officials and agencies have inventoried available resources and are prepared to deal with disasters and emergencies as effectively as possible.

5) It is assumed that the Town of Wareham will be able to host and provide for approximately 3,000 evacuees from Plymouth, at least temporarily.

6) It is assumed that all persons living within a 10-mile radius of the Plymouth NPS will be evacuated if the incident is major enough for the State to so order.

7) It is assumed local primary responsibility and capability for immediate response to a nuclear incident at Plymouth rests with the public safety and emergency forces of Wareham. The Board of Selectmen have appointed a Civil Defense Director and will assure him of appropriate support.

8) It is assumed that some vehicle carrying evacuees from the Plymouth area will refuse to stop in Wareham for processing and registration and will try to drive through. It must be assumed that, although Wareham will do its best to provide signs and personnel to direct Sector II evacuees, no attempts will be made to force them to stop and register or to stay in Wareham shelters.

9) Since all traffic from lower Plymouth and the whole of Cape Cod MUST pass through Wareham on the way south or west,

and since many residents of the Cape Cod penisula have already expressed some concern about a nuclear incident at the Plymouth NPS, it is assumed that a goodly number of cars from Cape Cod will be added to those coming through Wareham from south Plymouth and that Wareham can expect a great deal of through traffic on its roads.

IV. CONCEPT OF OPERATIONS.

A. OBJECTIVES:

This Plan is intended to assure that the following objectives are met:

1) To determine promptly the nature and extent of the nuclear power station incident and to outline the public response required.

2) To effectively warn and advise the public as quickly as possible.

3) To see that recommended protective actions are carried out.

4) To provide shelter, food, and care for a limited number of persons evacuated from a part of south Plymouth.

B. MODES OF EXPOSURE:

The pathways of radiation exposure to man considered most likely in the event of a nuclear station incident are:

1) A gaseous plume is of most immediate concern. Individuals immersed by a wind blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume or internally from inhalation of gases and/or particulates.

2) Radioactive liquids can be released which would cause a threat of direct gamma exposure externally.

3) Foodstuffs and water could become contaminated either as a result of a gaseous plume or a liquid release. Generally this pathway is considered a long term consequence with ample time for protective actions. Exceptions are a possible need to restrict immediately consumption of freshly harvested produce such as leafy vegetables and of milk which might have become contaminated by cows eating exposed and contaminated grass.

4) Soil can become contaminated from particulates from a passing plume or from contaminated liquids.

C. PROTECTIVE ACTION:

There are several actions that can be taken to protect citizens in the event of a nuclear power station incident involving potentially dangerous radiation releases. A specific response would depend upon a number of factors such as the time available to carry out the action, the risks of that particular action, and the resources at hand.

For example, in a situation in which a gaseous plume is expected to pass over an area before that area could be successfully evacuated, the recommended protective action would likely be to take shelter indoors rather than evacuate.

Recommended protective actions are:

1) Evacuation.

2) Taking shelter.

3) Controlling access to affected areas.

4) Control of pasturage and dairy animal feed.

5) Control of normally exposed foodstuffs, open water reservoirs, and milk.

6) Administration of radioprotective drugs.

D. PLANNING ZONES:

For planning purposes, the area around the Plymouth Nuclear Power Station has been divided by the State into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North and the other sectors are designated alphabetically in a clockwise direction.

Parts of Wareham lie in Sector K outside of the 10-mile radius line but well within the 50-mile ingestion pathway. (For clarity, neither "I" nor "O" are used as designators for sectors.)

E. EMERGENCY OPERATIONS:

All emergency operations conducted by the Town of Wareham forces will be in accordance with the Wareham Basic Operations Plan as supplemented by this "Radiological Emergency Response Plan." The prime Emergency Operating Center (EOC) is located in the basement of Wareham Town Hall on Route 6 just south of Wareham center.

An alternate EOC is located in the basement of the Wareham Police Station which is located just west of Wareham center on Route 28.

V. ORGANIZATION AND RESPONSIBILITIES:

Responsibilities of the various departments and agencies of the Town of Wareham shall generally be consistent with basic emergency responsibilities assigned in the Basic Operations Plan. These responsibilities and others peculiar to the Radiological Emergency Response Plan are reflected in Annex D of this Plan and are entitled "Radiological Emergency Responsibilities and Functions."

VI. IMPLEMENTATION:

In the event of a nuclear incident at the Plymouth Nuclear Power Station, three (3) levels of warning and notification will be used. All notices will be handled by the State government acting through carefully established, well maintained, and continuously tested channels which have 100% backup provisions.

The three levels of warning or notice are:

(1) STANDBY. (This will be called "Code Yellow.")

(2) ALERT.

(3) EMERGENCY OPERATIONS.

A. STANDBY LEVEL:

Upon receipt by Bridgewater Police of a "Code Yellow" message, either through the National Attack Warning System or through State Civil Defense Area II Headquarters (Bridgewater), the following actions will be taken at once:

(1) All local officials will be notified in accordance with Annex A, Warning and Notification.

(2) Such town officials will assure the continued availability of required disaster response personnel for the duration of the Standby condition.

(3) The Emergency Operating Center (EOC) will be opened and activated and both telephone circuits and the two-meter RACES radio communications link will be established and maintained with Massachusetts State Civil Defense Agency Area II Headquarters in Bridgewater.

B. ALERT LEVEL:

A specific nuclear incident may or may not involve an Alert Level. During this type of notification and warning level, local authorities are expected to begin notification of the public but with no particular recommendations of any protective actions.

If local officials are advised by Massachusetts Civil Defense that an Alert Level has been declared, the public notification and alerting measures outlined in Annex A, Warning and Notification, should be carried out.

C. EMERGENCY OPERATIONS LEVEL:

Upon receipt of Standby or Code Yellow warning from the Massachusetts Civil Defense followed by further warning and advice that protective actions are now recommended, Emergency Operations measures and activities will commence at once.

In addition to those activities covered in the attached Annexes to this Plan for general action, protective actions, and supporting actions, Emergency Operations Level activities will include:

(1) Activation of Emergency Operating Center (EOC).

(2) Activation of Reception Centers.

(3) Activation of all required emergency response units.

(4) Invoking of mutual aid arrangements.

(5) Requesting State and/or Federal assistance in accordance with the provisions of the Massachusetts State Comprehensive Emergency Response Plan and its Radiological Emergency supplements.

(6) Assembly and provision of the intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area, and

(7) The taking of all steps otherwise necessary to minimize loss of life, injuries and damage to property.

VII. OTHER LOCAL WAREHAM CONSIDERATIONS:

The following remarks apply specifically to Wareham because of its geographical location in relation to the Plymouth Nuclear Power Station site.

(1) It is highly unlikely that a nuclear incident at Plymouth NPS could be of sufficient magnitude to require a general evacuation of Plymouth residents up to the 10-mile radius line and thus it is consequently highly unlikely that any situation would develop that means Wareham would be called upon to receive and house thousands of evacuees fleeing from Plymouth.

(2) A regular "atomic Bomb" type of nuclear explosion is impossible at Plymouth because of the simple facts of basic theorectical physics and a more normal type of electrical power plant steam explosion would probably be confined and restricted by the massive walls of the Plymouth NPS reactor containment building. Most probable, under the worst conceivable type of situation, would be a massive gaseous plume carrying some particulates and this plume could perhaps be of long duration.

(3) Since the prevailing winds are away from Wareham, the town might escape entirely from the effects of even the most massive and prolonged plume. However, the winds sometimes do blow southerly from the reactor site toward Wareham so local planning should reflect serious concerns for this problem.

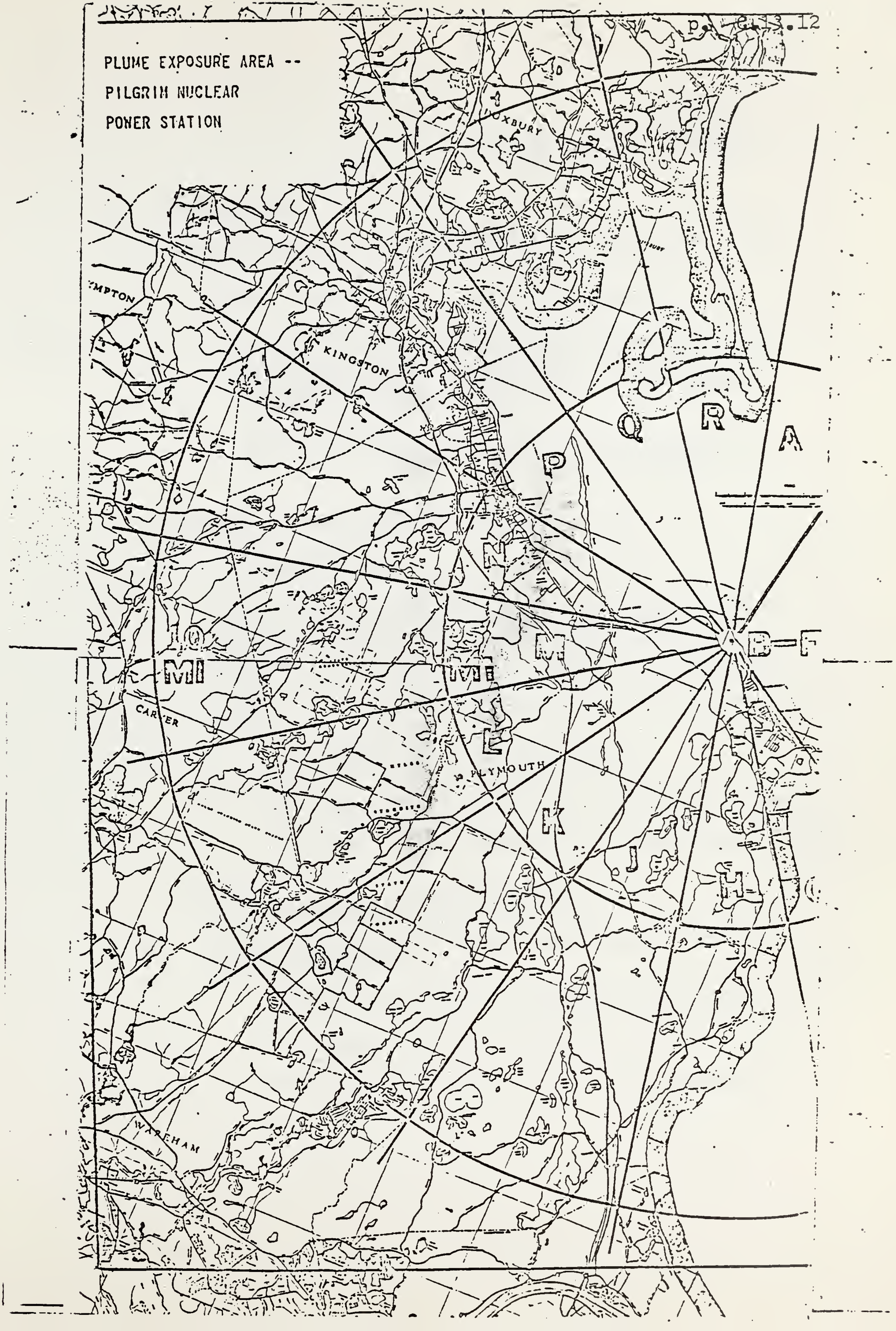
(4) It is expected that even a modest nuclear incident at the Plymouth NPS could trigger off fear, panic, and unfounded rumors among the general public. For this reason, Wareham should make plans, as soon as the first nuclear incident warning of any type or level is received in the Town of Wareham, even though an evacuation is not yet ordered or thought necessary, for the following:

(a) Heavy traffic south and west from Plymouth, through Wareham, by overcautious or panicky Plymouth residents fleeing from the unknown, and,

(b) A number of Plymouth residents who might desire temporary shelter in Wareham until the situation dies down and becomes clarified.

5) It is ludicrous to expect or demand that a small town such as Wareham would have the facilities, trained manpower, or available funds to carry out full emergency response operations on the scale necessary in the event of a massive NPS incident at Plymouth. However such a massive incident is so improbable that, if it did occur, the full weight of assistance from State and Federal government agencies, from trained military teams and units, from the American Red Cross, from other nearby communities, and from a number of volunteers would be assumed and expected.

However, Wareham could be depended upon to do as much as humanely possible with the limited resources and personnel at its immediate local command.



PLUME EXPOSURE AREA --
PILGRIM NUCLEAR
POWER STATION

DUXBURY
KINGSTON
MPTON
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MI
B
F
CARVER
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PLYMOUTH
K
J
H
WAREHAM

ANNEX A.

WARNING AND NOTIFICATION.

I. INTRODUCTION

The Warning and Notification function involves three distinct phases:

(1) Receipt of the initial warning by the town.

(2) Notification of all involved local officials of this initial warning and of whether it is a Standby Level, Alert Level, or Emergency Operations Level notice.

(3) Notice to the public of the situation along with any recommended protective actions.

II. RESPONSIBILITIES AND PROCEDURES

A. Initial Warning:

Receipt of any initial warning is the responsibility of the Wareham Police Department. This initial warning will come from the State Police Headquarters in Boston via teletype to Wareham.

Backup and validation messages will then come in from:

(1) NAWAS Net to Wareham Police.

(2) Plymouth County Police to Wareham Police.

(3) State Civil Defense to Wareham Civil Defense.

B. Notification of Local Officials:

Wareham Police will begin simultaneous notification as follows:

(1) Wareham Police to Wareham Civil Defense.

(2) Wareham Police to Wareham Fire District.

(3) Wareham Police to Onset Fire District.

(4) Wareham Police to the following, exact names and telephone numbers being shown on Attachment:

Any Town Hall Custodian (to open Town Hall).
Town Administrator.
Chairman of Board of Selectmen.
Chairman of Board of Health.
Auxiliary Police Chief.
Superintendent of Schools, or Asst. Supt.
Tobey Hospital
Municipal Maintenance Director or Deputy.
Any Town Hall Switchboard Operator.
Visiting Nurse Association.
Ambulance Service.

C. Public Notification:

No part of Wareham (except for 3 summer cottages) is within the 10-mile radius line of the Plymouth NPS so a warning to the public to evacuate would not be necessary.

Thus no police cars with loudspeakers would be required to patrol Wareham and give warning to the general public.

It is expected that major warnings and notices would be given over the local TV and radio stations from the State Civil Defense Agency headquarters.

ANNEX A.

ATTACHMENT I.

TOWN OF WAREHAM

ROSTER OF KEY OFFICIALS OR DEPARTMENTS

Wareham Police (Rte 28)	295-1212, 295-1213 295-0800 ext. 21.
Wareham Civil Defense EOC (Town Hall)	295-9336 295-0800, ext 15, 47, & 48.
Robert Packard, Civil Defense Director	295-9336
Home - Little Harbor	295-3468
Richard Post, Jr., Chrm Board of Selectmen	
(days, at work)	295-9251
(Home, nights)	759-7843

THIS LIST WILL BE COMPLETED

AND FORWARDED SOON.

ANNEX B.

PROTECTIVE RESPONSE

RECEPTION, PROCESSING, AND SHELTERING

I. Introduction:

The Massachusetts Department of Public Health, acting through the State Civil Defense Agency, will order the evacuation of all of, or portions of, the area within a 10-mile radius of the Plymouth NPS in the event of a nuclear incident if the situation is felt to warrant such action. This will protect the public against the direct effects of a gaseous or liquid radiological release.

If Sector H is ordered evacuated, the residents of this area of Plymouth will proceed to the Wareham Town Hall for processing, relocation and shelter assignment.

Evacuation action will be based upon the Protective Action Guidelines issued by the Environmental Protection Agency and will depend upon a number of variables such as the weather conditions, the nature of the isotopes released, the anticipated time needed to effect protect action, and the length of time over which exposure to a given level of radiation is expected to continue.

Reception, processing and sheltering actions are covered separately below.

II. Reception:

A) General:

Plymouth evacuees from Sector H will proceed south on Routes 3 or 3A to the Sagamore Rotary and then west on Route 6 to the Wareham Town Hall. All vehicles will first be monitored for radiation emission.

Signs will direct people to the various checkpoints for initial monitoring, decontamination, registering, and processing. People requiring medical treatment will be attended by the medical team (see Annex G.)

All evacuees from Sector H will be registered, processed, and given shelter if they desire in the Wareham High School. Wareham will receive and shelter approximately 3,000 evacuees.

B. Responsibilities and Procedures:

1) Upon notification from the Massachusetts State Civil Defense Agency, after a determination by the State Department of Public Health that evacuation is required, the Wareham Civil Defense Director will implement this Plan.

2) He will immediately call for the assistance that he feels is required and necessary from the State Civil Defense Agency.

3) He will maintain communications at all times with the State Civil Defense Agency, Director Area II, Bridgewater, for updated advice on the length of the shelter period required for evacuees or for any additional protective actions required for the Town of Wareham.

III. ROUTING

A. General:

Access control will outline routing and procedures to be followed for all evacuees from Sector H of Plymouth to reach Wareham Town Hall for reception and processing.

Egress control will outline the routing for evacuees who wish to leave Wareham after reception and processing and do not desire to take shelter in the town.

B. Responsibilities and Procedures:

1) The responsibility for determining access control shall lie with the Selectmen guided by advice from the Massachusetts Department of Public Health and acting through the State Civil Defense Agency.

2) The Wareham Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary control actions.

3) Responsility for carrying out access control actions must rest primarily with the State Police since Route 6 is a State Highway and since it passes directly in front of the Town Hall reception area. Additional support will come from Wareham Police and Wareham Auxiliary Police.

4) Upon receipt of notice of the pending arrival of Plymouth evacuees, the following will take place:

(a) Wareham Civil Defense Director will notify the State Police, Wareham Police, and the Wareham Civil Defense processing team.

(b) Wareham Police working with State Police will assign traffic control officers as needed. It is anticipated that Wareham Police will cover the large area, off the highway, on which the Town Hall-High School complex is located and that State Police will provide traffic control over the whole of Route 6 from the Sagamore Rotary to Wareham Town Hall. Some Wareham Police may be needed in downtown Wareham to guide and speed traffic through.

(c) Wareham Municipal Maintenance Department will be notified that signs are needed to be placed in certain key spots. These signs will be prepared in advance, if possible, but this Department must also be prepared to paint signs to order, quickly, as the situation develops.

5) The main access control point will be the entrance to the Wareham Town Hall-High School complex area. It is anticipated that, of the three entrances possible, the most southerly one (farthest from downtown Wareham) will be utilized for ease of routing within the complex.

6) Egress control will be clearly marked with signs for those evacuees who wish to leave Wareham and travel on. However, all such evacuees will first be processed and registered so that there is a record of them.

IV. RADIOLOGICAL MONITORING AND DECONTAMINATION PROCEDURES

A. General:

During the initial reception of evacuees from the Plymouth area, the first step required will be an accurate assessment of nuclear contamination of persons and their vehicles. This assessment will be performed at a radiological monitoring station clearly designated in the entrance lane to the Wareham Town Hall-High School complex area. A minimum of three (3) two-man radiological monitoring teams will be required for this effort. Cars will be diverted from a single lane entry into three (3) lanes as they approach the monitoring station. A team will be assigned to each lane with a monitor evaluating each side of a car as it approaches. Following external monitoring of each vehicle, all passengers will step out for individual monitoring with a portable Geiger counter. If the vehicle and its passengers are not contaminated, they will be directed to the mainparking area and will proceed through further reception and processing steps.

If any cars or persons are found to be contaminated, they will proceed to the rear parking area behind the High School building which is used as a softball field. Signs will indicate the route and guides will point out the way. Cars will be left parked on this field in rows starting from the far edge of the field. Parking attendants will be in charge of this. Passengers from these cars will proceed on foot to marked entrances at the rear of the High School.

Inside the High School gymasium area, signs will direct people to male or female showers. All persons will first shower fully clothed, remove clothing and place in an appropriate waste container. All persons will then shower completely with hot water and soap and will be issued clean clothing. Following the decontamination process, persons will again be monitored by a radiological monitor at the exit of the shower area. Registration and processing of personnel following decontamination will take place in other rooms of the High School, as shown by signs.

B. Responsibilities and Procedures:

Radiological monitoring requirements are stipulated in Annex D and will be under the supervision of the local Civil Defense Radiological Defense Officer.

V. EMERGENCY MEDICAL PROCEDURES

A. General:

An emergency medical team with an ambulance will be located adjacent to the entry Radiological Monitoring Station and will be available for emergency medical treatment upon the initial arrival of vehicles in the Town Hall parking area. Any people requiring hospital treatment will be transported to Tobey Hospital. If people requiring hospitalization are contaminated they will be directed to the Goddard Hospital in Stoughton which is qualified to receive radiological victims.

B. Responsibilities and Procedures:

The Wareham Ambulance Service will assume responsibility for all emergency medical team requirements including close coordination with medical personnel from Tobey Hospital.

VI. REGISTRATION AND PROCESSING

A. General:

Registration and processing will be accomplished primarily in rooms at the Wareham High School which will be designated by signs. Evacuees found to be not contaminated will park in the High School Track area and walk to the reception area designated by a sign. Personnel will proceed to the gymnasium area or to Wareham Town Hall for a holding period if necessary. They will proceed from the area to the High School Library where registration forms will be filled out and shelter areas assigned. Personnel who do not desire shelter will indicate a forwarding address and telephone number if known and they will be provided with an egress route map with instructions on how to proceed away from Wareham.

If school children are evacuated by school bus from the Plymouth area, they will be assigned to a designated holding area until their parents register and are reunited.

B. Responsibilities and Procedures:

The Wareham Civil Defense Agency will be responsibile for establishing and conducting the registration, processing and shelter assignment and egress routing of all evacuees. Detailed procedures outlining personnel requirements will be contained in Attachment I to this Annex to be published at a later date.

PROTECTIVE RESPONSE

FOOD, WATER, MILK

I. General:

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion parthway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. State Actions:

The State Radiologicam Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs, and milk, and the analysis of water. These provisions are made on a statewide basis.

III. Local Responsibilities and Procedures:

A. Water

Wareham is provided with water by two Water Districts and by a large number of private driven wells servicing individual homes. The largest district, the Wareham Water District, has only underground wells and covered standpipes.

The Onset Water District has both wells and an open reservoir known as Sand Pond. If possible all water flow from this reservoir would be stopped and just the Onset wells utilized upon first notification of possible impending nuclear contamination. If this proves difficult to do, or to do quickly, all the recommended practices of this Mass. Department of Public Health and Department of Environmental Quality Engineering will apply.

B. Milk

The responsibility for supporting State Action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Wareham Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the local Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

1. Dairy Farms: There are none in town.
2. Stored Feed Sources: None known.
3. Large Produce Farms: None, except hundreds of acres of cranberry bogs.

V. WARNING

The local Civil Defense Director acting upon advise received from the Massachusetts Civil Defense Agency and the Department of Public Health will issue protective action guideline warnings to all personnel residing in the community pertaining to individual home gardens and individually owned livestock.

ANNEX D

RADIOLOGICAL MONITORING

1. General:

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence to State Authorities;
2. Verify readings of personal dosimeters worn by emergency workers.

II. Responsibilities:

The responsibility for monitoring radiation levels rests with the Wareham Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;
2. Arranging appropriate training for personnel of the Town and for volunteers in radiation monitoring;
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area II Headquarters.
4. Supporting, where necessary, monitoring requirements of registration centers.

III. Procedures:

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to the Town Hall parking lot. Precedence will be given to the radiological monitoring teams at the arrival checkpoint and decontamination area.
2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area II Headquarters.

ANNEX E

EXPOSURE CONTROL

I. General:

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. Responsibilities:

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1. Maintaining adequate inventories of both high and low range personal dosimeters;
2. Distributing dosimeters during an emergency;
3. Advising Fire, Police and other personnel of exposure guidelines for emergency workers;
4. Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. Procedures:

1. Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment to emergency workers at Wareham Town Hall and High School;
2. Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;
3. The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.
    a. A decontamination station will be set up in the gymnasium of Wareham High School
    b. The station will be manned by personnel from the Wareham Civil Defense Agency.

ANNEX F

PUBLIC INFORMATION

I. Purpose:

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. Responsibility:

The Wareham Civil Defense Director, or his designee, is responsible, following coordination with the Selectmen, for issuing public announcements relative to the occurance of an incident at the Plymouth NPS. These announcements should additionally be coordinated with Area II Headquarters Massachusetts Civil Defense Agency.

III. Procedures:

Upon notification that there has been an incident at the Plymouth NPS, the Wareham Civil Defense Director or his designee, will contact radio station WPLM in Plymouth, WBSM in New Bedford, Channel 6-TV in New Bedford and other news media to issue appropriate releases. Such releases should be consistent with information received from Area II Headquarters, Massachusetts Civil Defense Agency.

Prepared news releases informing the public of the current status of an on-going incident at the Plymouth NPS will be made on an Area basis through radio, television, and newspapers from Massachusetts Civil Defense Agency Headquarters.

The Civil Defense Director will issue further information to the public periodically over radio and television to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

SUPPORT SERVICES

I. General:

Support services are those services necessary to support evacuation in Wareham of personnel evacuated from Plymouth. Those included in this Annex are:

1. Public Safety--the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2. Social Services--the provision of food, shelter, clothing and routine medical services for evacuees.

3. Emergency Medical Services--includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of other town agencies, volunteers, Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Plymouth Nuclear Power Station.

II. Responsibilities and Procedures:

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuation reception areas, and in directing traffic to the reception center, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures (see Annex B, App. 1 & 2).

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for such State assistance will be directed through the Wareham Civil Defense Director.

B. Social Services:

The Town of Wareham will make available facilities and personnel to provide the bulk of Social Services support outlined in this Plan. Additional assistance, if required, may be available through the American Red Cross or from local volunteers. Attachment I to this Annex outlines detailed personnel requirements, administrative concepts and required procedures for implementation of Social Services.

Ambulance service will be provided through the Town of Wareham Ambulance Service. Emergency Medical Services will be provided by Wareham and Onset Fire Department EMT's with support from the Wareham Ambulance Service.

PLAN MAINTENANCE, TRAINING AND EXERCISES

I. General:

The procedures in this Annex involve those aspects of the Plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. Responsibilities:

A. Civil Defense Director

The Wareham Civil Defense Director has primary responsibility for plan document control, plan updating and the conduct of all tests and exercises.

B. Other Agencies

Other Town Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. Procedures:

Procedures for plan maintenance, training and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for Towns in the Plymouth NPS area.

FUTURE TRAINING AND LOGISTICS REQUIREMENTS

I. General:

The following shortcomings exist at the present time with respect to immediate implementation of this plan and must be addressed for future actions to insure full implementation capability.

A. Training:

The majority of trained Radiological Monitors in the Town of Wareham are found in the Police and Fire Department First Responder Corps. Additional training of radiological monitors is required and is recommended to be conducted at Town Hall. This will provide a nucleus of personnel available from the facility that will be handling the radiological monitoring of evacuees.

Shelter management training should be conducted to insure availability of qualified personnel.

An additional training course should be established to encompass all clerical facets of registration and housing assignments.

B. Logistics Requirements:

1. An additional supply of CD V-700 radiological monitors will be required to insure availability of one in each emergency response vehicle as well as eight (8) for radiological monitoring teams outlined in this plan.
2. An additional thirty (30) dosimeters without chargers are required to support this plan.
3. Identification tags and availability of clothing for personnel following the decontamination process.
4. A source of funds to reimburse the community for expenses involved in the implementation of this plan. This requirement exists on an immediate basis for expenditures involving sign making, identification badges, or other materials required prior to the implementation of this plan and on a follow-up reimbursement basis for costs incurred incidental to the implementation of the plan.

SECTION D-1 AREA OPERATIONS - YANKEE ROWE

A. INTRODUCTION

This Section describes the site and environs of the Yankee Rowe Nuclear Power Station at Rowe, Massachusetts, and describes and summarizes operational concepts of the plan as they will be carried out in the event of a radiation emergency at Yankee Rowe.

B. APPLICABILITY

The provisions of this Section are primarily applicable to the designated evacuation and reception communities within and around the ten-mile "plume exposure" emergency planning zone which surrounds Yankee Rowe, and those local, State and Federal agencies, and private organizations with assigned radiation emergency tasks for the Yankee Rowe area. This Section has secondary applicability outside the ten-mile "plume exposure" emergency planning zone, but within the 50 mile "ingestion exposure" zone.

C. SCOPE

All operational concepts reflected in this Section are consistent with responsibilities set forth in Sections A and B (Basic Plan and Annexes) and with the local plans that make up the balance of Section D.

D. SITE DESCRIPTION, LAND USE, AND DEMOGRAPHY

Attachment D1-1 to this Section describes the Yankee Rowe Nuclear Power Station site and its environs, and the population and land use characteristics of areas surrounding the site. Site description and land use characteristics were extracted from Yankee Rowe's Final Safety Analysis Report to the NRC. Sector population estimates were prepared by the Vermont Department of Public Safety in July of 1979, and are based upon more recent data than the Yankee Rowe Final Safety Analysis Report.

E. EMERGENCY NOTIFICATION OF LOCAL OFFICIALS

In any situation requiring notification to States and localities, the Yankee Rowe Nuclear Power Station will alert those Massachusetts communities in the system via the Tri-State Mutual Aid. Yankee Rowe will also alert the Massachusetts State Police in Boston via microwave. The Massachusetts State Police will, in turn, provide redundant alerts via NAWAS to the Greenfield, Pittsfield, and North Adams warning points, and to Civil Defense in Framingham and in Belchertown.

Localities will receive additional redundant alerts from Massachusetts Civil Defense in Belchertown, and from Franklin and Berkshire County Police.

In conformity with State practice, alert messages will state that the Nuclear Power Station has a CODE YELLOW. Initial local response to receipt of a CODE YELLOW message should be those specified in the local plan. Determination of what further actions are required will be made by Department of Public Health officials, and transmitted to localities by Civil Defense via NAWAS.

Attachment D1-2 is a diagram of emergency notification flow.

F. EVACUATION ROUTES

The Department of Public Health may determine that, based upon power plant condition or actual measured radiation releases, evacuation of some areas is necessary.

It is possible that only a very limited area will require evacuation, and that this evacuation be quickly carried out in a "crosswind" fashion, to avoid an expected gaseous plume traveling with the wind. (To avoid a southbound plume traveling on a wind from the North, for instance, people in the path of the plume would be advised to move either East or West.)

In most cases, however, more time would be available to effect evacuation, and the Department of Public Health would be advising evacuation of larger areas to prevent any unnecessary increase in radiation exposure to the public. For such eventualities, each community in the "plume exposure" emergency planning zone has designated evacuation routes which, generally, are designed to move people quickly away from the power station, and to reception centers in Buckland and North Adams which are the principal reception centers for communities in the Yankee Rowe area.

Attachment D1-3 consists of summary sheets of key information from area local plans.

Attachment D1-4 is a summary of designated evacuation routes.

G. TRAFFIC CONTROL

Traffic control will be accomplished by local police, with the support of local fire, highway and other resources, in accordance with local plans. Traffic control responsibilities will include the responsibility to control access to affected areas to prevent radiation exposure or reexposure to the public.

Pre-designated access control points appear in each local plan, and are summarized in Attachment D1-5.

State Police, assisted by State Department of Public Works personnel, are available to assist with local traffic control and law enforcement, to man key traffic control points on State highways, and to maintain liaison with Vermont State Police at key traffic control points at the State borders. Attachment D1-6 summarizes State Police responsibilities and procedures.

H. EMERGENCY PUBLIC INFORMATION

Emergency public information, following initial notification to the public by local police, fire and other officials, will be available over a variety of broadcast media (See Section A-4, Public Information). Attachment D1-7 summarizes recommended frequencies and channels for receipt of such information.

CHAPTER 2

SITE CHARACTERISTICS

2.1 Geography and Demography

2.1.1 Site Location

The plant is located in the town of Rowe, Franklin County, Massachusetts on the east bank of the Deerfield River, three-quarters of a mile south of the Vermont - Massachusetts border. The coordinates of the reactor vapor container are 4,732,500 meters N and 669,000 meters E in the Universal Transverse Mercator system or 42° 43' 39" N latitude and 72° 55' 55" W longitude. This area is found on the Rowe, Massachusetts - Vermont, U.S. Geological Survey topographic map.

2.1.2 Site Description

The site consists of a total of approximately 2,000 acres straddling the Deerfield River in the towns of Rowe and Monroe, Franklin County, Massachusetts. The Yankee Atomic Electric Company owns, in fee, 1862 acres, and the remainder is owned by an affiliated company, the New England Power Company. The site is shown on Figure 2.1-1.

2.1.2.1 Exclusion Area Control

The minimum distance from the reactor vapor container to the exclusion area boundary is 3100 ft or 945 meters. All of this area is under the control of Yankee Atomic Electric Comapny. Written permission has been obtained from the paper mill in Monroe Bridge to have a portion of their land, which is within the 3100 ft radius, under Yankee control in the event of an incident. This piece of land is across the river and SW of the plant and is used as a disposal area by the paper mill.

Two public secondary roads traverse the exclusion area. The closest is across the river from the plant and is approximately 2,000 ft at its closest point. This road runs NS along the river between Monroe Bridge and Readsboro, Vermont. The second road, which connects to the main access to the plant, is approximately 2,500 ft at its nearest point and runs between Monroe Bridge and Rowe, south of the plant. Provisions have been made in the Site Emergency Plan to protect the public along these roadways should it become necessary in an emergency.

One house is located within the exclusion area. It is across the pond from the plant, approximately 2,000 ft away, on the river road. It is owned by The New England Power Company and occupied by one of its employees.

A railroad which once traversed the exclusion area has been purchased by The New England Power Company, abandoned, and the track removed.

2.1.2.2 Boundaries for Establishing Effluent Release Limits

The exclusion area boundary as shown in Figure 2.1-2 demarcates the area, access to which will be actively controlled for purposes of protection of individuals from exposure to radiation.

2.1.3 Population and Population Distribution

2.1.3.1 Population Within Ten Miles

The population in the vicinity of the site is low. Based upon the 1970 Federal Census, there are approximately 100 people within one mile of the plant site, principally in the community of Monroe Bridge, about 0.8 miles to the Southwest of the plant.

The total population within a 10 mile radius of the plant is approximately 17,000. This includes approximately 50% of the City of North Adams whose closest boundary is 9 miles. North Adams, with a 1970 population of 19,195, is the only city or town within 10 miles that has a population in excess of 2500 persons. The population distribution within 10 miles of the plant is shown in Figure 2.1-3.

2.1.3.2 Population Within 50 Miles

The population between 0 and 50 miles is presented in Figure 2.1-4. Two population centers of greater than 100,000 people are included within the 50 mile radius. Albany, New York with a 1970 population of 116,000 is located 45 miles west of the site and Springfield, Massachusetts with a 1970 population of 164,000 is located 48 miles SSE of the site.

The distances (closest point) and directions to all cities and towns within 50 miles of the site with populations greater than 20,000 are presented in Table 2.1-1.

2.1.3.3 Low Population Zone

The low population zone (as defined in 10 CFR 100) has been defined as an S-shaped area, two miles wide and centered on the river, extending two miles upstream and six miles downstream from the plant. This area was selected based on the terrain and meteorology at the site, and the ability to quickly evacuate the entire population from this zone should it ever be necessary. The total 1970 population within the low population zone is estimated to be approximately 250 persons. Figure 2.1-5 shows the low population zone.

2.1.3.4 Transient Population

Variations in population on a seasonal basis are not significant within the low population zone. The only industry within the low population zone is a paper mill in Monroe Bridge which has a total force of approximately 250 on a three shift-a-day basis.

Some seasonal variation in population does occur beyond the low population zone, mainly because of winter recreation developments, especially in the state of Vermont. One ski development is approximately five miles away in Charlemont, Massachusetts and another approximately eight miles away in Stamford, Vermont. Other areas exist at greater distances.

2.1.3.5 Population Center

The nearest population center (as defined in 10 CFR 100) is the city of Pittsfield, Massachusetts, with a 1970 population of 57,000 located 21 miles SW of the site. Other cities and large towns within 50 miles are presented in Table 2.1-1.

2.1.3.6 Public Facilities and Institutions

The grade school in the community of Monroe Bridge is the only public facility within the low population zone (LPZ). The school in the town of Rowe is approximately 3 miles away and beyond the LPZ boundary.

The Commonwealth of Massachusetts has a minimum security correctional institute, which is a forestry camp, in the town of Monroe, 3 miles WSW of the site. This camp has facilities for approximately 100 persons who do work in the state forest in the area.

The closest hospital is in North Adams, 10 miles west of the site. Greenfield, 19 miles east also has a hospital. Four nursing homes are located in North Adams. Two nursing homes are in Shelburne Falls approximately 12 miles SE and two also are in Greenfield.

Two small summer camps for children are in Rowe. Public Campgrounds are found in Charlemont, Florida, Shelburne Falls and North Adams for summer tourists with camp trailers.

Approximately 12 motels are found along US route 2 between North Adams and Greenfield.

2.1.4 Uses of Adjacent Lands and Waters

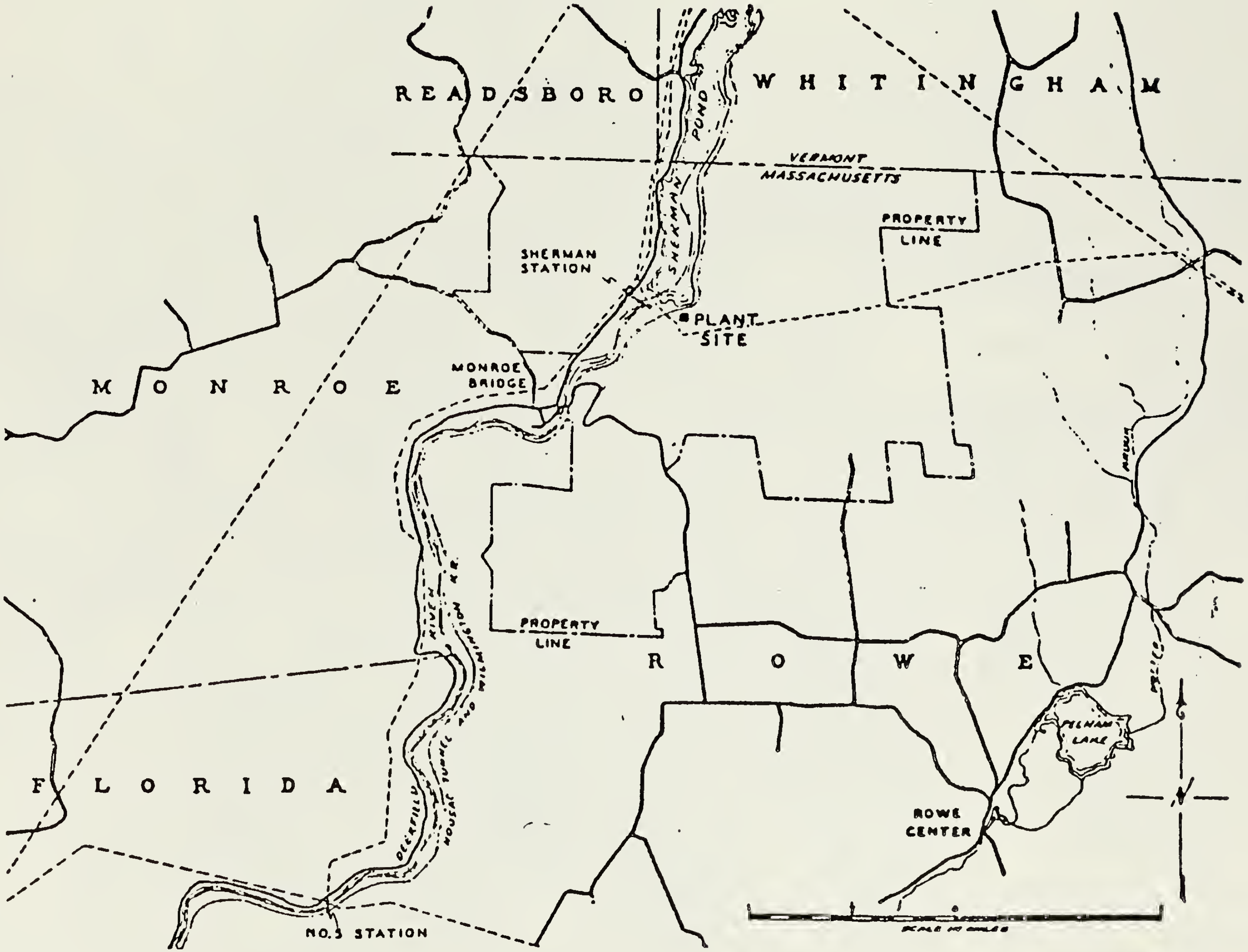
The Deerfield River travels 41.2 miles from the plant site at Sherman Pond to its confluence with the Connecticut River. The public has access to many areas of the river which are popular for fishing. The Massachusetts Department of Natural Resources, Division of Fisheries and Game stocks the river below Fife Brook Station with mostly rainbow trout and these represent the majority of catches. A total of approximately 20,000 trout are stocked annually. About 50% of these are assumed by state authorities to be caught. There are no downstream towns that use Deerfield River water for domestic purposes.

Approximately 10 percent of the land area of the surrounding counties in Massachusetts and Vermont is devoted to crops. No crops of commercial importance are grown in the area. The only commercial crop of any value involves the production of maple syrup. Large portions of the area are heavily forested and part of state and national forests, and are unavailable for commercial use.

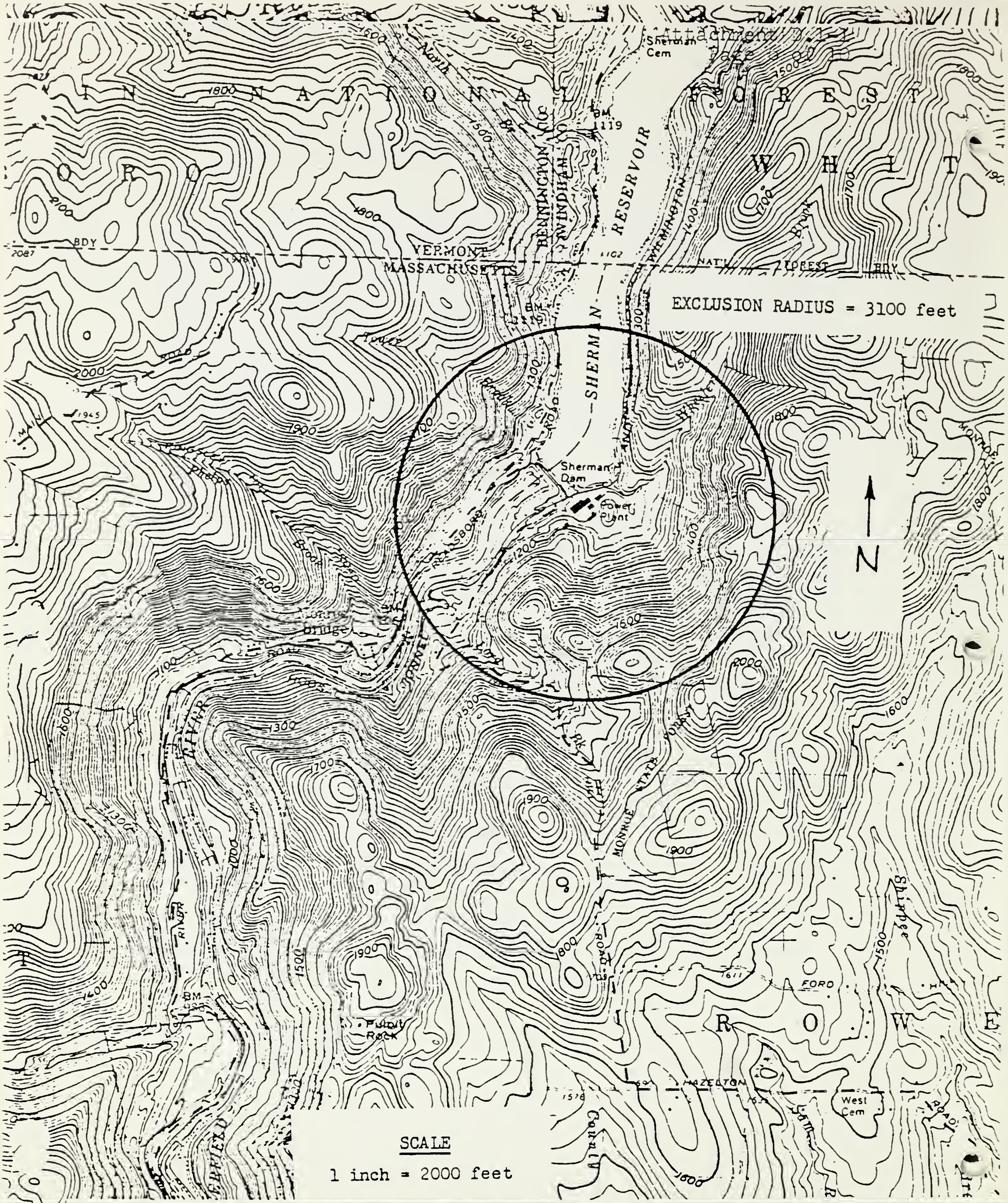
TABLE 2.1-1

COMMUNITIES WITHIN 50 MILES OF THE YANKEE NUCLEAR POWER STATION WITH 1970 POPULATION GREATER THAN 20,000 PERSONS

Community	Distance and Direction from Site	1970 Population
(Massachusetts)		
Agawam	46 miles SSE	21,717
Amherst	30 miles SE	26,331
Chicopee	40 miles SSE	66,676
Holyoke	35 miles SSE	50,112
Northampton	28 miles SSE	29,664
Pittsfield	21 miles SW	57,020
Springfield	48 miles SSE	163,905
Westfield	38 miles S	31,433
West Springfield	42 miles SSE	28,461
(New Hampshire)		
Keene	32 miles ENE	20,467
(New York)		
Albany	45 miles W	115,781
Bethlehem	44 miles W	23,427
Colonie	44 miles W	69,147
Troy	38 miles W	62,918


READSBORO
WHITINGHAM
VERMONT
MASSACHUSETTS
PROPERTY LINE
SHERMAN STATION
SHERMAN POND
PLANT SITE
MONROE BRIDGE
MONROE
PROPERTY LINE
ROWE
FLORIDA
DEERFIELD RIVER
HOOSAC TUNNEL AND WILMINGTON R.R.
ROWE CENTER
PELHAM LAKE
NO.5 STATION
SCALE IN MILES

YANKEE NUCLEAR POWER STATION	REACTOR SITE	FIGURE 2.1-1


NATIONAL FOREST
WHITE
ORO
Sherman Cem
North
Br
BM 1119
BENNINGTON CO
WINDHAM CO
RESERVOIR
SHERMAN
WILMINGTON
VERMONT
MASSACHUSETTS
BDY
NAT'L FOREST BDY
Sherman Dam
Power Plant
READSBORO
ROAD
Tower
1800
1900
2000
2100
1600
1500
1400
1300
1200
1700
MONROE
MONROE STATE FOREST
RIVER
DEERFIELD
Pulpit Rock
FORD
HAZELTON
West Cem
Cobaly
ROWE
BM 988
N

EXCLUSION RADIUS = 3100 feet

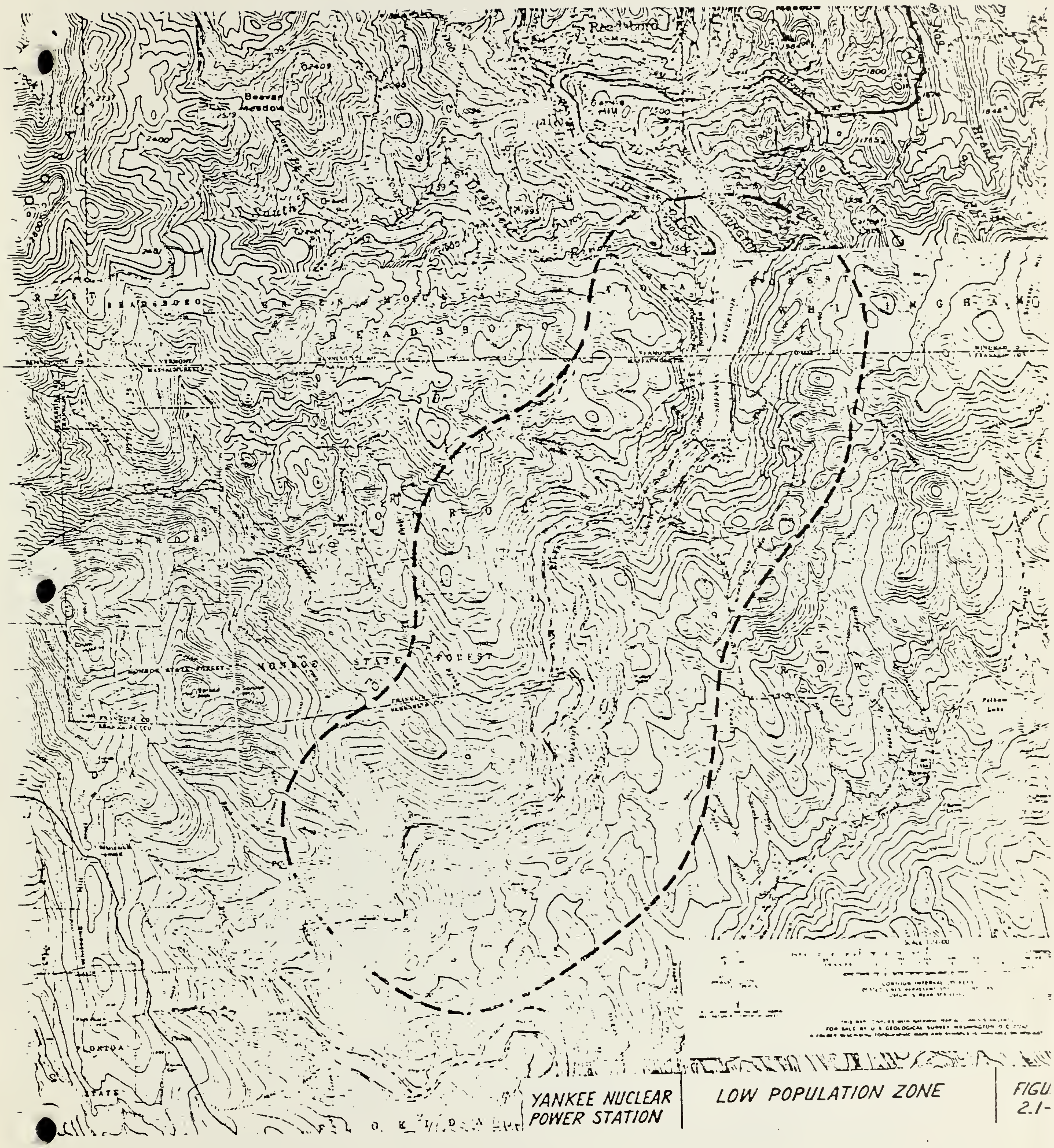
SCALE

1 inch = 2000 feet

YANKEE NUCLEAR POWER STATION

EXCLUSION AREA BOUNDARY

FIGURE 2.1-2


Readsboro
Beaver Meadow
South
GREEN MOUNTAIN
READSBORO
WHITINGHAM
VERMONT
MASSACHUSETTS
MONROE
MONROE STATE FOREST
ROWE
Pelham Lake
FLORIDA

YANKEE NUCLEAR POWER STATION

LOW POPULATION ZONE

FIGU
2.1-

POPULATION BY SECTOR
(1980 Estimate)
Vicinity of Yankee Rowe

FIVE MILE ZONE

SECTOR	MASSACHUSETTS	VERMONT	TOTALS
N 5	0	60	60
NNE5	0	225	225
NE 5	0	125	125
ENE5	0	50	50
E 5	80	0	80
ESE5	75	0	75
SE 5	80	0	80
SSE5	150	0	150
S 5	80	0	80
SSW5	10	0	10
SW 5	100	0	100
WSW5	100	0	100
W 5	75	0	75
WNW5	0	50	50
NW 5	0	75	75
NNW5	0	400	400
TOTALS	750	985	1,735

DPS PLANNING 8-2-79

POPULATION BY SECTOR
(1980 Estimate)
Vicinity of Yankee Rowe
TEN MILE ZONE

SECTOR	MASSACHUSETTS	VERMONT	TOTALS
N 10	0	200	200
NNE10	0	450	450
NE 10	0	600	600
ENE10	0	250	250
E 10	325	25	350
ESE10	350	0	350
SE 10	350	0	350
SSE10	350	0	350
S 10	350	0	350
SSW10	250	0	250
SW 10	1,200	0	1,200
WSW10	8,500	0	8,500
W 10	3,200	25	3,225
WNW10	0	175	175
NW 10	0	225	225
NNW10	0	100	100
TOTALS	14,875	2,050	16,925

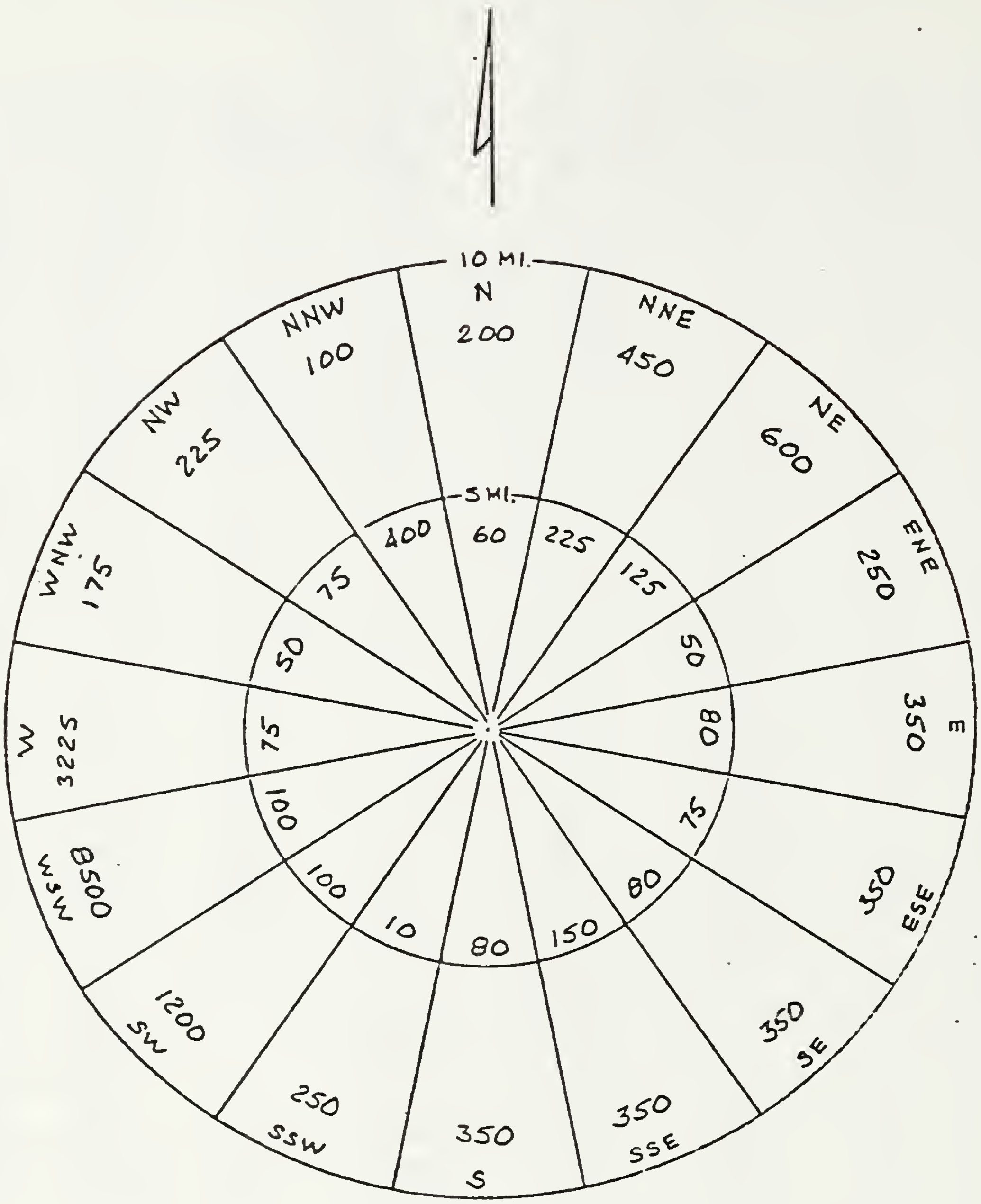
CUMULATIVE TOTALS
FIVE AND TEN MILE ZONES

5 Mile	750	985	1,735
10 Mile	14,875	2,050	16,925
TOTALS	15,625	3,035	18,660

DPS PLANNING 8-2-79

1980 SECTOR POPULATION ESTIMATES

Plume Path Overlay


10 MI.
N
200
NNE
450
NE
600
ENE
250
E
350
ESE
350
SE
350
SSE
350
S
350
SSW
250
SW
1200
WSW
8500
W
3225
WNW
175
NW
225
NNW
100
5 MI.
60
225
125
50
80
75
80
150
80
10
100
100
75
50
75
400

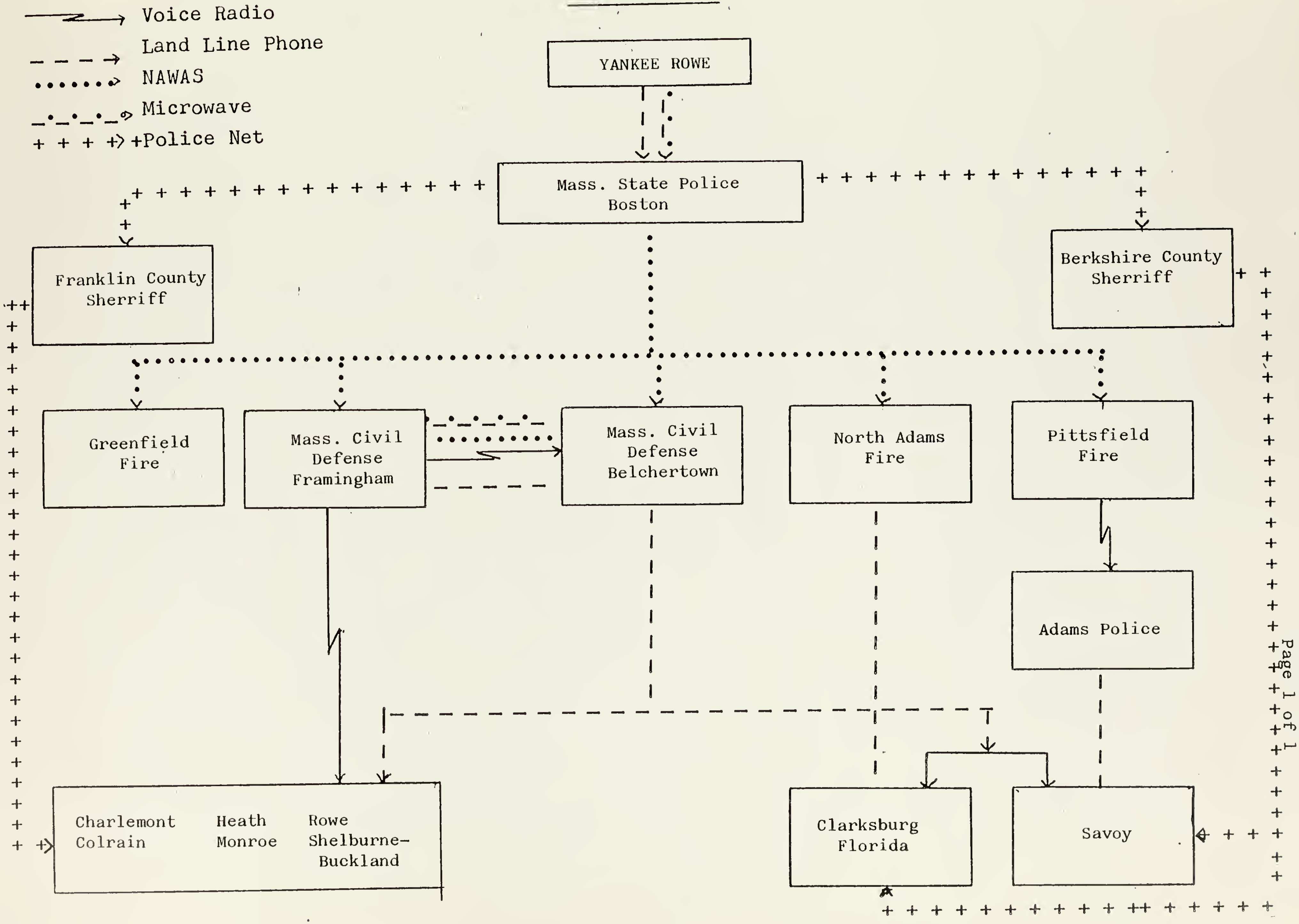
Population within 5 miles of Rowe, MA................1,735
Population within 5-10 miles of Rowe, MA............16,925
Total population within 10 miles of Rowe, MA.......18,660

SCALE = 1:250,000 1" = 4 STATUTE MILES
SECTOR POPULATION DATA - PROJECTION TO YEAR 1980

EPZ PLUME
ROWE YANKEE, ROWE, MA.
DPS PLANNING DIV.
7-79

EMERGENCY NOTIFICATION FLOW

YANKEE ROWE NPS


Voice Radio
Land Line Phone
NAWAS
Microwave
+Police Net
YANKEE ROWE
Mass. State Police Boston
Franklin County Sherriff
Berkshire County Sherriff
Greenfield Fire
Mass. Civil Defense Framingham
Mass. Civil Defense Belchertown
North Adams Fire
Pittsfield Fire
Adams Police
Charlemont Colrain
Heath Monroe
Rowe Shelburne-Buckland
Clarksburg Florida
Savoy

LOCAL PLANS SUMMARIES
Yankee Rowe Area

COMMUNITY Buckland POPULATION 1,800

MAJOR MISSION Reception/Evacuation

SECTORS INVOLVED E, F, G, H, & J

EVACUATION/RECEPTION PLAN

Town of Buckland will receive evacuees from the following communities: Charlemont, Colrain, Hawley, Heath, & Rowe.

Town of Buckland will evacuate Buckland residents within a ten-mile radius of Yankee Rowe to the Mohawk Regional High School.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Mohawk Regional High School

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Route 2(E) to Route 112(S)

Charlemont Road to Route 112(N)

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY n/a

COMMUNITY Charlemont POPULATION 1,200

MAJOR MISSION Evacuation

SECTORS INVOLVED F, G, H, J, & K

EVACUATION/RECEPTION PLAN

Town of Charlemont will evacuate residents to the Town of Buckland.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Mohawk Regional High School in Buckland

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Route 2(E)

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY 1,200

COMMUNITY Clarksburg POPULATION 1,990

MAJOR MISSION Evacuation

SECTORS INVOLVED N

EVACUATION/RECEPTION PLAN

Town of Clarksburg will evacuate residents to the City of North Adams.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Greylock School in North Adams

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Local roads

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY 1,990

COMMUNITY Colrain POPULATION 1,500

MAJOR MISSION Evacuation

SECTORS INVOLVED E & F

EVACUATION/RECEPTION PLAN

Town of Colrain will evacuate residents within a ten-mile radius of Yankee Rowe to the Town of Buckland.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Mohawk Regional High School in Buckland

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Route 112(S)

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY 100

COMMUNITY Florida POPULATION 750

MAJOR MISSION Evacuation

SECTORS INVOLVED K, L, & M

EVACUATION/RECEPTION PLAN

Town of Florida will evacuate residents to the City of North Adams.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

McCann Vocational School in North Adams

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Route 2(W)

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY 750

COMMUNITY Hawley POPULATION 230

MAJOR MISSION Evacuation

SECTORS INVOLVED H & J

EVACUATION/RECEPTION PLAN

Town of Hawley will evacuate residents within a ten-mile radius of Yankee Rowe to the Town of Buckland.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Mohawk Regional High School in Buckland

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Local roads to Route 112(N)

Local roads to Route 2(E)

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY n/a

COMMUNITY Heath POPULATION 425 (peak: 525)

MAJOR MISSION Evacuation

SECTORS INVOLVED E, F, & G

EVACUATION/RECEPTION PLAN

Town of Heath will evacuate residents (year-round & seasonal) to the Town of Buckland.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Mohawk Regional High School in Buckland

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Route 8A(S) to Route 2(E) to Route 112(S)
Local roads to Route 2(E) to Route 112(S)

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY 525

COMMUNITY Monroe POPULATION 225

MAJOR MISSION Evacuation

SECTORS INVOLVED A, L, M, N, P, Q, & R

EVACUATION/RECEPTION PLAN

Town of Monroe will evacuate residents to the City of North Adams.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Greylock School and McCann School in North Adams

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

VT Route 100(S) thru Clarksburg to Route 2(W) to Greylock School

Local roads to Route 2(W) to McCann School

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY 225

COMMUNITY North Adams POPULATION 16,671 (6,845 affected)

MAJOR MISSION Evacuation/Reception

SECTORS INVOLVED M & N

EVACUATION/RECEPTION PLAN

City of North Adams will evacuate residents within 10 miles of Yankee Rowe to a reception center within the city's limits.

City of North Adams will receive evacuees from the following communities: Clarksburg, Florida, Monroe and Savoy.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

McCann Vocational School

Greylock School

Y.M.C.A.

Backup locations: Adams Memorial Jr. High School, Adams National Guard Armory & Hoosac Regional School

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Local Roads, Route 2(W), Route 116(N), & Route 8 (N)

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY n/a

COMMUNITY Rowe POPULATION 277

MAJOR MISSION Evacuation

SECTORS INVOLVED B, C, D, E, F, G, H, J, K, & L

EVACUATION/RECEPTION PLAN

Town of Rowe will evacuate residents to the Town of Buckland. If road conditions are such that primary evacuation routes to Buckland are not possible, Rowe residents may be evacuated West rather than East.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Mohawk Regional High School in Buckland

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Local roads to Route 2(E)

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY 277

COMMUNITY Savoy POPULATION 500

MAJOR MISSION Evacuation

SECTORS INVOLVED K & L

EVACUATION/RECEPTION PLAN

Town of Savoy will evacuate residents within 10 miles of Yankee Rowe to the City of North Adams.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

McCann Vocational School in North Adams

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Route 116 to Route 8A(N)

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY n/a

EVACUATION ROUTES FOR INCIDENT AT YANKEE ROWE

Town/City	Evacuation Route(s)
Colrain	North Heath Road & Rte 112 to Mohawk Regional School in Buckland
Heath	South on Rte 8A to Rte 2 East on Rte 2 to Rte 112 to Mohawk Regional
Heath	South on South Road to Burrington Hill, South on Burrington Road to Avery Brook Road, South on Avery Brook Road to Rte 2 then East on Rte 2 to Rte 112, then South on Rte 112 to Mohawk Regional School
Buckland	Charlemont Road to Mohawk Regional
Rowe	Zoar Road South to Rte 2, East to Mohawk Regional School
Rowe	Cyrus State Road East to Number Nine Road South to Rtw 2, East to Mohawk Regional School
Rowe	Alternate Route For Winter: North on Lesures Road to Rte 100 West to Rte 8 thru Clarksburg
Charlemont	Rte 2 East to Mohawk Regional School in Buckland
Hawley	From East Hawley Road use Buckland Road to Rte 112 to Mohawk Regional
Hawley	Balance use South River Road to Rte 2 to Mohawk Regional School
Monroe	River Road and Main Road, either to VT Rte 100 then thru Clarksburg to Rte 2 West to Barbour Street to Greylock School, North Adams or Rte 2 West to West Shaft Road to McCann School in North Adams
Savoy	Brier Road, Chapel Road, Barnard Road, Tannery Road, & Adams Road to Rte 116 to Rte 8A North to McCann School in North Adams
Florida	Rte 2 to West Shaft Road, North Adams, to McCann School

EVACUATION ROUTES FOR INCIDENT AT ROWE YANKEE

Town/City	Evacuation Route(s)
North Adams	(Ward 1) Rte 2 to Brickyard Ct. to Y.M.C.A.
North Adams	Church St. or State St. to McCann School
Clarksburg	Houghton Street or Eagle Street to River Street and Mass. Avenue to Protection Avenue across Rte 2 to Barbour Street to Greylock School in North Adams

ACCESS CONTROL POINTS FOR INCIDENT AT YANKEE ROWE

Sector/Direction	Town	Location
E/E	Colrain	Thompson Road Jct. Rte 112 (not on map)
F/ESE	Colrain	North Heath Road Jct. Heath Road (not on map)
F/ESE	Heath	Colrain Road at Colrain Line
F/ESE	Heath	Colrain Stage Road at Colrain Line
F/ESE	Heath	Colrain Brook Road at Colrain Line
G/SE	Heath	Avery Brook Road at Charlemont Line
G/SE	Heath	Burrington Road at Charlemont Line
G/SE	Heath	South Road at Charlemont Line
G/SE	Heath	Rte 8A at Charlemont Line
F/ESE	Heath	Brunell Road at Stage Road
E/E	Heath	Underwood Hill Road at Sadoga Road
F/ESE	Heath	Jct. Number Nine Road and Stage Road
G/SE	Buckland	Rte 2 at Charlemont Line
G/SE	Buckland	Rte 112 at Mohawk Regional School
J/S	Rowe	Zoar Road Jct. Steele Brook Road (Charlemont line)
K/SSW	Rowe	Monroe Hill Road at crest of hill (Plant personnel)
D/ENE	Rowe	Leshures Road at VT line
D/ENE	Rowe	Potters Road at VT line
E/E	Rowe	Stone Hill Road at Heath line

ACCESS CONTROL POINTS FOR INCIDENT AT YANKEE ROWE

Sector/Direction	Town	Location
F/ESE	Rowe	Jct. Dell Road and Cyrus Stage Road
F/ESE	Rowe	Jct. Davis Mine Road and Cyrus Stage Road
G/SE	Charlemont	Rte 2 at Buckland line
G/SE	Charlemont	Rte 8A at Heath Line
H/SE	Charlemont	East Hawley Road at Hawley Line
J/S	Charlemont	Rte 8A at Hawley Line (West Hawley Road)
K/SSW	Charlemont	Rte 2 at Savoy line
J/S	Charlemont	Jct. Zoar Road & Rowe Road
H/SSE	Hawley	Buckland Road at Buckland Line
H/SSE	Hawley	Rte 8A at Plainfield line
K/SSW	Hawley	Savoy Road at Savoy Line
N/W	Monroe	Jct. Kingsley Road and Main Road
L/SW	Monroe	Mill Street at Bridge
L/SW	Monroe/Florida	Whitcomb Hill Road in Hoosac Tunnel in Florida
N/W	Monroe	Turner Hill Road at Vermont line
K/SSW	Savoy	Chapel Road Jct. Hawley Road
L/SW	Savoy	Adams Road at Adams Line
K/SSW	Savoy	Centre Road at Route 116
K/SSW	Savoy	Scott Road at Hawley Road

ACCESS CONTROL POINTS FOR INCIDENT AT YANKEE ROWE

Sector/Direction	Town	Location
N/W	Florida	Jct. Tilda Hill Road and Blackstone Road
L/SW	Florida	Rte 2 at Savoy line
L/SW	Florida	Jct. River Road & Whitcomb Hill Road
L/SW	Florida	Jct. Monroe Road and Whitcomb Hill Road
M/WSW	North Adams	Rte 2 at Florida line
M/WSW	North Adams	Rte 2 at Williamsburg line (not on map)
N/W	North Adams	Rte 8 at Clarksburg line
M/WSW	North Adams	Rte 8 at Adams line
M/WSW	North Adams	Massachusetts Avenue at Protection Avenue (not on map)
N/W	Clarksburg	Rte 8 at Stamford, Vt. line
N/W	Clarksburg	Rte 8 at North Adams line
N/W	Clarksburg	Houlton St. at North Adams line
N/W	Clarksburg	Middle Road at North Adams line

EMERGENCY RESPONSE TO NUCLEAR INCIDENTS

TRAFFIC AND SECURITY PLAN
FOR
VERMONT YANKEE NUCLEAR POWER STATION
AND
YANKEE ROWE NUCLEAR POWER STATION

Massachusetts State Police
Troop "B" Headquarters
Northampton

COORDINATION

In the event of a radiation emergency at the Vermont Yankee Nuclear Power Station (Vernon, Vermont) or the Yankee Rowe Nuclear Power Station (Rowe, Massachusetts) Troop "B" of the Massachusetts State Police will assist in coordinating emergency measures with the following agencies to facilitate evacuation and security of the affected areas:

1. Vermont State Police, Montpelier
2. New Hampshire State Police, Concord
3. Massachusetts Civil Defense Agency, Area IV, Belchertown (Robert Boulay -- (413) 323-6306, - 5055)
4. Massachusetts Department of Public Works, Northampton (413) 584-1611, extension 45
5. Police Chiefs -- Vernon NPS Towns:
   - Bernardston
   - Colrain
   - Gill
   - Greenfield
   - Leyden
   - Northfield
   - Warwick
6. Police Chiefs -- Rowe NPS Towns:
   - Buckland
   - Charlemont
   - Clarksburg
   - Colrain
   - Florida
   - Hawley
   - Heath
   - Monroe
   - North Adams
   - Rowe
   - Savoy

RADIATION EXPOSURE CONTROL

At no time will an officer be subjected to overexposure to radiation. High and low level dosimeters, which will measure radiation exposure, will be stored at Shelburne Falls and Northampton barracks, which accept responsibility for maintaining this equipment and periodically recharging it. Northampton and Shelburne Falls will make this equipment available as necessary to DPW engineers working in the area.

Field commanders will keep detailed records of the time that each officer enters and leaves a contaminated area so that they may be properly relieved. Massachusetts Department of Public Health experts will constantly monitor the degree of radiation exposure, and keep State Police advised as to the safe amount of time an officer may stay in an area. As additional officers arrive from outlying Troops, first on scene officers will be relieved.

SECURITY

When evacuation of the affected communities has been completed, field commanders will break their officers into teams to report back to each of the communities. Upon arrival, the officer in charge of the detail will report to the Chief of Police to offer assistance in patrolling the town to guard against looting and deter sightseeing. On the roving patrols a local officer will accompany a State Police Officer to assure the area is completely covered. Fixed posts will be set up at practical locations to keep unauthorized persons out of the area.

COMMUNICATION

One officer with a cruiser will be assigned to meet a radio equipped Department of Public Works vehicle to coordinate radio communications between State Police and the Department of Public Works. Requests for road barricades, road lighting, signs, etc., will be relayed through this channel, as their resources will be available on an on call basis. A DPW engineer will be assigned to Troop "B" Headquarters for liaison.

NUCLEAR INCIDENT ADVISORY TEAMS

The Department of Public Health's Nuclear Incident Advisory Teams (NIAT) will be in the area affected during the entire period of the incident. NIAT personnel will carry identification, satisfy yourself that they are legitimate, and let them carry on their work. Be cooperative.

CRUISER ASSIGNMENTS

Vermont Yankee Emergency

Route 63 and Mass./N.H. State lines, meet N.H. cruiser to coordinate communications
Route 91 and Mass./Vt. State lines, meet Vermont cruiser to coordinate communications
Route 5 and Mass./Vt. State lines, meet Vermont cruiser to coordinate communications
Route 91 North at Deerfield exit, to close Route 91 to Northbound traffic

Yankee Rowe Emergency

Route 8A and Mass./Vt. State lines to coordinate communications

RADIO/TV STATIONS FOR COMMUNITIES IN YANKEE ROWE AREA

City/Town	Radio/TV Stations
Buckland	WHAI(1240 AM) Channel 3
Charlemont	WHAI(1240 AM) WMNB(1230 AM/100.1 FM) Channel 10 Channel 19 Channel 22
Clarksburg	WMNB(1230 AM/100.1 AM) Channel 10
Colrain	WHAI(1240 AM) WHYN(560 AM/93.1 FM) Channel 3 Channel 22 Channel 40
Florida	WMNB(1230 AM/100.1 FM) Channel 10
Hawley	WHAI(1240 AM) Channel 3 Channel 10
Heath	WHAI(1240 AM) Channel 10 Channel 22
Monroe	WHAI(1240 AM)
North Adams	WMNB(1230 AM/100.1 FM) Channel 7 (Cable TV) Channel 19
Rowe	WHAI(1240 AM) WHMP(1400 AM) WHYN(560 AM/93.1 FM) Channel 3 Channel 4 Channel 5
Savoy	WMNB(1230 AM/100.1 FM) Channel 10 Channel 19

Attachment D.1-7
Page 2 of 2

WMNB
BOX 707 · NORTH ADAMS, MASS. 01247
413 [illegible]

September 26, 1979

Mr. Robert Boulay
Area 4 Director Mass. Civil Defense
Belchertown State School
Belchertown, Mass. 01007

Dear Bob:

As we discussed at the recent hearing on the Rowe evacuation plans, WMNB and WMNB-FM will be available 24 hours a day in the event of an accident or a serious emergency situation. Your office will receive full coverage simply by calling the station at 663-6567 and speaking the the newsman on duty. If it becomes necessary to use the radio station during our normal off air period one of the following will be able to assist:

Frank Costa; Asst. General Manager for news & Public affairs. Home Phone 743-[illegible]
Ron Plock: News Director Home Phone 664-1453
Cory Thurston: Station Manager, Home Phone 663-5434
Don Thurston: President, Home Phone 663-5210

I also would like to reitterate my offer to allow Civil Defense communications equipment to be installed at our FM Tower site on the Mohawk Trail. Space can be made available at a very reasonable rate.

Looking forward to continued co-operation.

Yours truely,

Corydon L. Thurston
Asst. Manager

TOWN OF BUCKLAND

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Buckland with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public in the affected area of the Town.

II. AUTHORITY

a. The Town of Buckland is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Buckland Police (via NAWAS — see Section VI) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. The Rowe Yankee Nuclear Power Station is located in the Town of Rowe, Massachusetts, in Franklin County on the East shore of the Deerfield River. Site coordinates approximate 42°43'39" N latitude and 72°55'55" W longitude.

2. The Town of Buckland, the center of which is approximately fourteen (14) miles SSE of the Rowe Yankee NPS, could be affected by a major accident at the Rowe Yankee NPS. Further, major accidents at either the Yankee Vernon NPS (approximately 20 miles east of Buckland) or at the proposed NPS at Montague could result in recommendations that protective actions be taken in Buckland with respect to foodstuffs, especially dairy cattle and milk.

   Buckland is bordered by Charlemont and Colrain on the North; Greenfield on the East; Deerfield, Conway and Ashfield on the South; and Hawley on the West. It is 10 miles from Greenfield, 28 miles from North Adams, 29 miles from Northampton, 46 miles from Pittsfield, about 160 miles from New York City, and 101 miles from Boston.

   Principal highways are Route #2, running East and West along the Deerfield River; Route #112, which crosses the Deerfield.

3. The population of Buckland is approximately 1800. The Town is the site of the Mohawk Trail Regional School. About 500 students attend public and private schools. The principal highways serving the town are State Routes #2, the Mohawk Trail and Route #112. Buckland does not have a public water supply. Residents obtain their water from springs or wells. There are 12 houses on Charlemont Road, 6 of which are summer camps that are within the 10 mile radius.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Buckland lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;
2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;
3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,
4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;
2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;
3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,
4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Rowe Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Buckland lie's in Sectors "G" and "H".

E. Emergency Operations

Emergency Operations will be conducted in accordance with the Buckland Basic Operations Plan as supplemented by this Plan. The Town Hall will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Buckland Police of a "CODE YELLOW" message;

either through Franklin County Police Net; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;
4. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,

6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Police Department. Initial warning will come from Franklin County Police Net.

Back-up and validation messages will be received as follows:

1. State Police to Buckland Police

2. Massachusetts Civil Defense to local Civil Defense

B. Notification of Local Officials

The Local Police Department will begin a simultaneous notification as follows:

1. Local Police will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department
Mohawk Regional School
Board of Health

The official notification call list appears as an Attachment to this Annex.

2. Upon establishment of emergency operations at the Town Hall, the local Civil Defense Director or a designee will validate notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Police Department teams, dispatched to Charlemont Road to conduct a door-to-door and loudhailer notification.

2. The local police cruiser PA system will function as primary door-to-door notification.

3. Radio Station WHAI and Channel 3 will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

East	Route #2 at Buckland, Charlemont Town Line;
South	Route #112 at Mohawk Regional School.

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

B-3

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

   Charlemont Road to Mohawk Regional School

ANNEX C PROTECTIVE RESPONSE — FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

The portion of Buckland which lies within the 10 mile radius is served by springs and covered wells. Storage of up to one (1) million gallons of potable water, under cover, serves the lower part of Buckland, outside of the 10 mile radius.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;

2. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

C-2

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;
2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters.
4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.
2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;

2) Distributing dosimeters during an emergency;

3) Advising Fire, Police and other personnel of exposure guidelines for emergency workers;

4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Town Hall.

2) Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Town Hall, to pick up (1) high level and (1) low level dosimeter.

3) The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings.

4) The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Buckland Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Rowe Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Rowe Yankee Nuclear Power Station the Buckland Civil Defense Director, or his designee, will contact Radio Station WHAI in Greenfield to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat — DO NOT GO TO THE PLANT — DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

F-2

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT — STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Rowe Nuclear Power Station in Rowe, Massachusetts. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Buckland Civil Defense Director will issue further information to the public periodically over radio to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2) Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided, in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Rowe Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers at Mohawk Regional School. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the

Rowe Yankee area.)

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

ANNEX H — PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for the towns in the Rowe Yankee area.

TOWN OF CHARLEMONT

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Charlemont with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Charlemont is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Charlemont Fire (via NAWAS — see Section VI below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Rowe Yankee is located in the Town of Rowe, in Windham County on the East shore of the Deerfield River between 12-15 river miles to the center of Charlemont.

2. The Town of Charlemont, the center of which is approximately seven to eight (7-8) miles SSE of the Rowe Yankee NPS, could be affected by a major accident at the Rowe Yankee NPS.

   Charlemont is situated on either side of the Deerfield River.

Principal highways are Route 2, running East and West along the North bank of the Deerfield; Route 8A, which crosses the Deerfield, running North and South and through the center of Town.

3. The population of Charlemont is approximately 1,200. The Town is the site of the Hawlemont Regional School (approximately 150 students) an Elementary School, East Charlemont Bible School East on Route 2, 2 miles East of Charlemont center with approximately 60 students.

Recreation Areas:

1. State Auto Camp - 3 miles West of Charlemont on Rte. 2
2. Mohawk Park Camping Area - 2 miles West of Center of Town on Rte. 2
3. New England Power picnic area between the Deerfield River and South side of Zoar Road, 5 miles West of Center of Town.
4. Berkshire East Ski Area in Center of Town.
5. Pike's Camping Area - 6 miles East of Center of Town on Mohawk Trail.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Charlemont lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;
2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;
3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,
4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;
2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;
3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,
4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Rowe Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Charlemont lie in Sectors "F", "G", "H", "J", and "K". (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Charlemont Basic Operations Plan as supplemented by this Plan. The Fire Station will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Charlemont Fire of a "CODE YELLOW" message; either through Greenfield Fire (National Attack Warning System), via Tri-State Mutual Aid; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;

2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;

3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;

2. Activation of all required emergency response units;

3. Invoking of mutual aid arrangements;

4. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,

6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A — WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Greenfield Fire over the Tri-State Mutual Aid System.

Back-up and validation messages will be received as follows:

1. State Police to Charlemont Police
2. Franklin County Police to Charlemont Police
3. Massachusetts Civil Defense to local Civil Defense

Red phones and monitors should be used to acknowledge initial alerts.

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Local Police will initiate Signal 100 Major Incident notification procedure.
2. Local Fire will notify the following agencies and officials by telephone:

   Civil Defense
   Chairman, Board of Selectmen
   Highway Department
   School Department
   Hawlemont Regional School
   East Charlemont Bible School
   Board of Health and Board of Selectmen the same

The official notification call list appears as an Attachment to this Annex.

3. Upon establishment of emergency operations at the Fire Dept., the local Civil Defense Director or a designee will determine notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Charlemont, to conduct a door-to-door and loudhailer notification. Engine assignments and routes appear as Attachment 1 to this Annex.

2. The local police cruiser PA system will function as backup to Fire Department vehicles for door-to-door notification.

3. Radio Stations WHAI and WMNB and Channels 22, 10 and 19 will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

4. Notification of people using the Deerfield River for recreation purposes will be accomplished by Charlemont authorities.

NNEX B PROTECTIVE RESPONSE —EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include the entire Town of Charlemont, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in an Easterly direction, it is possible that a recommendation might be made to evacuate only a small part of the Town. In such cases local officials may choose to direct evacuees in an easterly or westerly direction.

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of road-blocks or other means to prevent people from entering an affected area.

B. Responsibilities and procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

East	Route 2
North	Route 8A
South	East Hawley
West	Route 2, Route 8A, West Hawley, Zoar Rd. via Florida Bridge, Rowe via Rowe Rd.

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following route :

   Route 2 East to the Mohawk Regional High School, Buckland

6. The Hawlemont Regional School Department shall be responsible for evacuation of students and faculty from Hawlemont Regional School and East Charlemont Bible School, if in session.

   Evacuation will be carried out as follows:

   a. Students and faculty from the Hawlemont Regional School will be transported by bus to Mohawk Regional High School;

   b. Students and faculty from East Charlemont Bible School will be transported by bus to Mohawk Regional High School.

7. Evacuation of the Berkshire East Ski Area is the responsibility of the recreation area's personnel and will be accomplished by private vehicles or buses of those using the Area.

ANNEX C PROTECTIVE RESPONSE — FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Privately owned artesian wells and springs only.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions;

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of: 1) dairy farms; 2) sources of stored feed; and 3) commercial and large produce farms appear as Attachment A to this Annex.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;
2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters.
4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.
2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E — EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1. Maintaining adequate inventories of both high and low range personal dosimeters;
2. Distributing dosimeters during an emergency;
3. Advising Fire, Police and other personnel of exposure guidelines for emergency workers;
4. Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1. Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Fire Station.
2. Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Town Hall, to pick up (1) high level and (1) low level dosimeter.
3. The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;
4. The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Charlemont Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Rowe Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Rowe Yankee Nuclear Power Station the Charlemont Civil Defense Director, or his designee, will contact Radio Station WHAI in Greenfield and WMNB in North Adams and Channel 22, and Channels 10 and 19 in Albany, to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Mass. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat — DO NOT GO TO THE PLANT — DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Mass. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT — STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Rowe Nuclear Power Station in Rowe, Mass. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Charlemont Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1. Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2. Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3. Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Rowe Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in Buckland, and elsewhere outside of the Town of Charlemont. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Rowe Yankee area.)

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Charlemont Fire Department Ambulance Service will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Rowe Yankee area.

TOWN OF CLARKSBURG

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Clarksburg with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

A. The Town of Clarksburg is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

B. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

C. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

D. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Clarksburg Fire (via NAWAS -- see Section VI) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Yankee Rowe is located in the Town of Rowe, Franklin County, Massachusetts, on the East bank of the Deerfield River, three quarters of a mile South of the Vermont-Massachusetts border. The coordinates of the reactor vapor container are 42°43'39" North Latitude and 72°55'55" West

Longitude. The site consists of a total of approximately 2,000 acres straddling the Deerfield River in the Towns of Rowe and Monroe.

2. The Town of Clarksburg, the center of which is approximately five (5) miles NW of the Rowe Yankee NPS, could be affected by a major accident at the Rowe Nuclear Power Station. Further, a major accident could result in recommendations that protective actions be taken in Clarksburg with respect to foodstuffs, especially dairy cattle and milk.

   Clarksburg, located in Berkshire County, is bordered on the North by the State of Vermont, on the East by Florida, on the South by North Adams, and on the West by Williamstown. It is about 135 miles from Boston, 24 miles from Pittsfield, 65 miles from Springfield and 170 miles from New York City. Clarksburg was settled in 1769.

   Transportation facilities available to the inhabitants consists of 2 railroads in North Adams, 1 railroad in Florida, 1 state highway, 2 common carriers, 5 trucklines, and 1 airport in North Adams. The Hoosac Tunnel and Wilmington Railroad provides freight service for the Town of Florida adjoining Clarksburg on the East.

   The principal routes serving the town are Route #8 through the town and Route #2 just below the town's southern border.

3. The population of Clarksburg is approximately 1990. The Town is a member of the Northern Berkshire Regional Vocational School District. Children up to age 12 attending local schools number 507 and 51 pupils attend private schools.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Clarksburg lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts

plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Rowe Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Clarksburg lie in Sector "N".

E. Emergency Operations

Emergency operations will be conducted in accordance with the Clarksburg Basic Operations Plan as supplemented by this Plan. The Town Hall will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

Upon receipt by Clarksburg Fire or Police Departments of a "CODE YELLOW" message; either through the Berkshire County Fire or Police Nets; or via State Civil Defense Area IV Headquarters in Belchertown, the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements; Fire and Police
4. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,

6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from North Adams Fire over the Berkshire County Fire Mutual Net.

Back-up and validation messages will be received as follows:

1. State Police to Clarksburg Police
2. Berkshire County Police to Clarksburg Police
3. Massachusetts Civil Defense to local Civil Defense

Red phones and monitors should be used to acknowledge initial alerts.

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Local Police will initiate Signal 100 Major Incident notification procedure.
2. Local Fire will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department
Principal of Briggsville School, Elementary, if in session
Board of Health
Ambulance Service

The official notification call list appears as an Attachment to this Annex.

3. Upon establishment of emergency operations at the Town Hall, the local Civil Defense Director or a designee will determine notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Clarksburg, to conduct a door-to-door and loudhailer notification. Engine assignments and routes appear as Attachment 1 to this Annex.

2. The local police cruiser PA systems will function as backup to Fire Department vehicles for door-to-door notification.

3. Radio station WMNB and Channel 10 WTEN will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

4. Cross country skiers and campers using the Clarksburg State Park recreation area will be notified by personnel of the State Park recreation area.

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include the entire Town of Clarksburg, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in a southerly direction, it is possible that a recommendation might be made to evacuate only a small part of one Sector (e.g. Sector M).

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director will coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

North	Route 8 - Stamford line
South	Route 8 - North Adams line
North	Middle Road & Houghton St. Osborn's Four Corners, if possible

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

   South via Houghton or Eagle Streets to River Street and Massachusetts Avenue to Protection Avenue across Rte 2 to Barbour Street to the Greylock School in North Adams.

6. The Clarksburg School Department shall be responsible for evacuation of students and faculty from the Clarksburg Elementary and Briggsville Schools, if in session.

   Evacuation will be carried out as follows:

   a. Students and faculty from the Clarksburg Elementary and Briggsville School will be transported by bus to the McCann School in North Adams.

7. Evacuation of the Clarksburg Recreation Area is the responsibility of the recreation area's personnel and will be accomplished by private vehicles of those using the area.

ANNEX C PROTECTIVE RESPONSE — FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Possible actions in the event of contamination of potable water include: 1) Shutdown of North Adams water and Red Mills Spring.

Note: Most water supplies are private wells.

Upon notification to the town by the State Department of Public Health or Department of Environmental Quality Engineering that any reservoir source is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action, with respect to milk, dairy cattle, pasturage, and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of: 1) dairy farms; 2) sources of stored feed; and 3) commercial and large produce farms appear as Attachment A to this Annex.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;
2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters;
4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.
2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;

2) Distributing dosimeters during an emergency;

3) Advising Fire, Police and other personnel of exposure guidelines for emergency workers;

4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Town Hall;

2) Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Town Hall, to pick up (1) high level and (1) low level dosimeter;

3) The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;

4) The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Clarksburg Board of Selectmen, or a designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Rowe Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Rowe Yankee Nuclear Power Station, the Board of Selectmen will contact Radio Station WMNB in North Adams and WTEN, Channel 10 to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat — DO NOT GO TO THE PLANT. DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT — STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Rowe Nuclear Power Station in Rowe, Massachusetts. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Clarksburg Board of Selectmen will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety — the deployment of law enforcement resources, or any available resources, for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2) Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Rowe Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in North Adams, and elsewhere outside of the Town of Clarksburg. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Rowe Yankee area.)

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

North Adams and Hopkins Ambulance Service will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Rowe Yankee area.

It has been voted by the Board of Selectmen that this plan is to be kept up and renewed yearly.

TOWN OF COLRAIN

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Colrain with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Colrain is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Colrain Fire (via NAWAS — see Section VI. 6 below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. a. Vermont Yankee is located in the Town of Vernon, Vermont, in Windham County on the West shore of the Connecticut River immediately upstream of the Vernon Hydroelectric Station. The site contains about 125 acres owned by the Vermont Nuclear Power Corporation,

2.

and a narrow strip of land between the Connecticut River and the East boundary of the Vermont Yankee property to which Vermont Yankee has perpetual rights and easements from the New England Power Company. The land is bounded on the North, South, and West by privately-owned land, and on the East by the Connecticut River. Site coordinates are approximately 42°47' north latitude and 72°31' west longitude.

b. The Rowe Yankee Nuclear Power Station is located in the Town of Rowe, Franklin County Massachusetts, on the East bank of the Deerfield River, three quarters of a mile South of the Vermont-Massachusetts border. The coordinates of the reactor vapor container are 42°43'39" north latitude and 72°55'55" west longitude. This area is found on the Rowe Massachusetts-Vermont U.S. Geological Survey topographic map.

The site consists of a total of approximately 2,000 acres straddling the Deerfield River, in the Towns of Rowe and Monroe, Franklin County, Massachusetts.

2. Colrain, located in Northwestern Massachusetts is bordered on the North by the State of Vermont; on the East by Northfield; on the South by Montague, Greenfield and Shelburne; on the Southwest by Charlemont; on the West by Heath; it is approximately 110 miles from Boston and 178 miles from New York.

The network of numbered highways serving Colrain are state routes #2, #10, and #112, Interstate Route #91 and U.S. Route 5. Public roads and highways are adequate to meet the requirements of the community.

The population of Colrain is 1,500. Colrain is a member of the Buckland-Shelburne and Mohawk Trail Regional School districts.

That geographic portion of Colrain which is affected by Vermont Yankee involves approximately 100 people, and there are no farms in that area.

Approximately 100 people and 3 dairy farms fall within the Rowe Yankee evacuation area.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Colrain lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the areas around the Vermont Yankee NPS and the Yankee Rowe NPS have been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Colrain lie in Sectors "E" and "F" re Yankee Rowe, and in Sectors "L" and "M" re Vermont Yankee.

E. Emergency Operations

Emergency operations will be conducted in accordance with the Colrain Basic Operations Plan as supplemented by this Plan. The Fire House will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Colrain Fire of a "CODE YELLOW" message; either through Greenfield Fire (National Attack Warning System), via Tri-State Mutual Aid; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;

2. Activation of all required emergency response units;

3. Invoking of mutual aid arrangements;

4. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,

6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Greenfield Fire over the Tri-State Mutual Aid System.

Back-up and validation messages will be received as follows:

1. State Police to Colrain Police;
2. Franklin County Police to Colrain Police;
3. Massachusetts Civil Defense to local Civil Defense;

Red phones and monitors should be used to acknowledge initial alerts.

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Local Police will initiate Signal 100 Major Incident notification procedure.
2. Local Fire will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
Board of Health

The official notification list appears as an Attachment.

3. Upon establishment of emergency operations at the Town Hall, the local Civil Defense Director or a designee will determine notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Colrain, to conduct a door-to-door and loud-hailer notification. Engine assignments and routes appear as Attachment 1 to this Annex.

2. The local police cruiser PA system will function as back-up to Fire Department vehicles for door-to-door notification.

3. Radio Station WHAI and WHYN and Chennel 3, 40 and 22 will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

4. The Catimount Hill area is a non-supervised recreation area that is used generally on weekends. After completion of the notification of residents, the Fire Department will organize patrols into the Catimount area.

5. In the event of an incident at Rowe Yankee, the following streets and homes could be affected, and the one hundred residents living in this area would travel over North Heath Rd. and Route #112, and then to the designated reception area.

Heath Road	10 homes
Wilson Hill	6 homes and 3 farms 2 dairy farms and 1 beef farm
Hilman Road	1 home
Edward Clark Road	13 homes
Thompson Road	3 homes

Notification of the above residents would be accomplished by Fire Department personnel.

In the event of an incident at Vermont Yankee, in Vernon, VT, the following streets and homes could be affected, and approximately one hundred residents would travel over West Leyden Rd. and Greenfield Rd. and then to the designated reception area.

Green River Rd. #2	3 homes
Green River Rd.	9 homes
Avery Hill Rd.	2 homes
West Leyden Rd.	4 homes
Thompson Rd.	3 homes

Notification of the above residents would be accomplished by Police Department personnel.

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include the Easter 1/8 of the Town of Colrain from the Vernon Plant and the Western 1/8 of the Town from the Rowe Plant, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in a southerly direction, it is possible that a recommendation might be made to evacuate only a small part of one Sector (e.g. Vernon Area, Sector L and M; Rowe Area, Sector E and F). In such cases local officials may choose to direct evacuees in an easterly or westerly direction.

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

Vernon	West Leyden Road at the junction of Shelburne Line Rd.;
	Green River Rd. at Greenfield Town Line.
Rowe	Thompson Rd. at Intersection of Route 112;
	North Heath Rd. at Intersection of Heath Rd.

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

Vernon	West Leyden Road and Greenfield Road to Colrain Road to Greenfield Community College
Rowe	North Heath Rd. and Route 112 to Mohawk Trail Regional High School, Buckland, Mass.

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Water is supplied by individual covered wells.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions;

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;

2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;

2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;

3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters.

4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E — EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1. Maintaining adequate inventories of both high and low range personal dosimeters;
2. Distributing dosimeters during an emergency;
3. Advising Fire, Police and other personnel of exposure guidelines for emergency workers;
4. Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1. Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Fire Station;
2. Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Fire Station, to pick up (1) high level and (1) low level dosimeter;
3. The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;
4. The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Colrain Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Vermont Yankee Nuclear Power Station or Rowe.

III. PROCEDURE

Upon notification that there has been an incident at the Rowe or Vermont Yankee Nuclear Power Station, the Colrain Civil Defense Director, or his designee, will contact Radio Station WHAI in Greenfield and issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, VT, or Rowe Yankee Power Station, in Rowe, MA. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat — DO NOT GO TO THE PLANT — DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont and/or Rowe, Mass. Power Station. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT —STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Vermont Nuclear Power Station in Vernon, Vermont and/or Rowe, Mass. Power Station. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Colrain Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1. Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.
2. Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.
3. Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Vermont Yankee Nuclear Power Station or Rowe Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in Greenfield or Buckland, and elsewhere outside of the Town of Colrain. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Vermont Yankee NPS area and the Rowe Yankee NPS area.)

G-2

C. Emergency Medical Services

Colrain Fire Department will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

TOWN OF FLORIDA

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Florida with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Florida is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Florida Fire (via NAWAS — see Section VI) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Rowe Yankee is located in the Town of Rowe, Massachusetts, in Franklin County on the East Shore of the Deerfield River immediately upstream of the Dearfield Glassine Paper Company. Site coordinates are approximately 42°43'39" N. latitude and 72°55'55" W. longitude.

2. The Town of Florida, the center of which is approximately five (5) miles SSW of the Rowe Yankee NPS, could be affected by a major accident at the Rowe Yankee NPS. Further, major accidents at either the Vermont Yankee NPS, approximately 25 miles east of Florida, or at the proposed NPS at Montague could result in recommendations that protective actions be taken in Florida with respect to foodstuffs, especially dairy cattle and milk.

   Florida is situated on the east side of the Deerfield River, on the Northern border of Massachusetts. It is due South of the Town of Monroe, and ESE of the Town of Rowe, Massachusetts.

   The principal highway is Route #2, running East and West. All other roads in the Town of Florida are secondary in nature.

3. The population of Florida is approximately 750. The Town is the site of the Gabreial Abbott School (approximately 100 students). The Town is also the site of two camping areas, one a state owned area at the southern part of town, and a privately owned area in the northern part. The Connecticut River is used for fishing and boating. Three motels operate in the town on a seasonal basis, all of which are separated only by height from the Deerfield River Valley.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Florida lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her, from both the Florida Fire and Police Departments.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Rowe Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Florida lie in Sectors "K", "L", and "M". (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Florida Basic Operations Plan as supplemented by this Plan. The Gabreial Abbott School will be utilized as the Emergency Operating Center.

IV. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

V. IMPLEMENTATION

A. Standby Level

Upon receipt by the Florida Fire Department of a "CODE YELLOW" message; either through Pittsfield Fire (National Warning System), via Berkshire County Fire Net; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;
4. Requesting State and/or Federal assistance, in accordance

with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,

6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Pittsfield Fire over the Berkshire County Mutual Aid System.

Back-up and validation messages will be received from:

1. State Police to Florida Police

2. Berkshire County Police to Florida Police

3. Massachusetts Civil Defense to local Civil Defense

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Local Fire will notify the following agencies and officials by telephone:

   Civil Defense
   Chairman, Board of Selectmen
   Highway Department
   School Department
   Board of Health
   North Adams Ambulance Service

The official notification call list appears as an Attachment to this Annex.

2. Upon establishment of emergency operations at the Gabreial Abbott School, the local Civil Defense Director or a designee will determine notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Florida, to conduct a door-to-door and loud-hailer notification. Engine assignments and routes appear as Attachment 1 to this Annex.

2. The local police will function as backup to Fire Department vehicles for door-to-door notification.

3. Radio Station WMNB and Channel 10 will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

4. Local camping areas and motels will be notified by personnel at those areas.

TOWN OF FLORIDA POLICE

1. Charles Briggs	Chief	664-9224
2. Louis Poirot	Constable	663-7964
3. Ralph Dodge - Selectman	Constable	664-9865
4. Lawrence Martin	Constable	663-7527
5. Paul Paquin		663-8395
6. Edward Lowell		663-3572
7. Dwight Brown		663-7659
8. Donald LeClair		664-4280
9. Alfred Bedini		663-8195
10. Daniel Fogarty - Selectman		664-4350
11. Kevin Dodge		664-9865
12. Einor Oleson - Selectman		663-7604

Civil Defense Director —	Louis Furlon	663-8489
Highway Supervisor —	Harry Embry	663-6833
Florida Fire Department		663-6908
Fire Chief - Charles Briggs		663-5898
Assistant Fire Chief		664-6002
Gabriel Abott Memorial School		664-6023
Health Department —	Gary Burdick	663-5039

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include the entire Town of Florida, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in a westerly direction, it is possible that a recommendation might be made to evacuate only a small part of one Sector. In such cases local officials may choose to direct evacuees in a westerly direction, toward the Gabriel Abott School.

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

North	Tilda Hill Road and Blackstone Road;
South	On River Road at the junction of Whitcomb Hill Road;
West	Monroe and Whitcomb Hill Roads;
South	Route #2 at the Florida, Savoy Lines.

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

   All Florida residents will evacuate via Route #2, then to West Shaft Road North Adams, then to the McCann School in North Adams.

6. The Florida School Department shall be responsible for evacuation of students and faculty from the Gabriel Abott School, if in session, or be responsible for lodging requirements should the school be used as the reception center. They will also notify school bus operators to report to the school, if evacuation becomes necessary.

7. Evacuation of the motels and camping areas is the responsibility of the motel and recreation areas personnel and will be accomplshed by private vehicles of those using the area.

ANNEX C PROTECTIVE RESPONSE — FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Possible action in the event of contamination of potable water include: the use of the Fire Department tank truck to bring in water from outside sources.

Upon notification to the town by the State Department of Public Health or Department of Environmental Quality Engineering that any water source is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;

2. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;

2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of: 1) dairy farms; 2) sources of stored feed; and 3) commercial and large produce farms appear as Attachment A to this Annex.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;

2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;

2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;

3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters.

4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;

2) Distributing dosimeters during an emergency;

3) Advising Fire, Police and other personnel of exposure guidelines for emergency workers;

4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the school.

2) Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the school, to pick up (1) high level and (1) low level dosimeter.

3) The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings.

4) The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Florida Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Rowe Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Rowe Yankee Nuclear Power Station the Florida Civil Defense Director, or his designee, will contact Radio Station WMNB in North Adams and Channel 10 TV to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat — DO NOT GO TO THE PLANT — DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT — STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Rowe Nuclear Power Station in Rowe, Massachusetts. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Florida Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2) Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Rowe Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in North Adams, and elsewhere outside of the Town of Florida. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Rowe Yankee area.)

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Kidder Ambulance Service will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will be notified to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Rowe Yankee area.

TOWN OF HAWLEY

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Hawley with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Hawley is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Hawley Fire (via NAWAS — see Section VI) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Rowe Yankee is located in the Town of Rowe, Massachusetts, in Franklin County on the East shore of the Deerfield River. Site coordinates approximate 42°55'55" North Latitude and 72°55'55" West Longitude.

2. The Town of Hawley is located in the Northwestern part of Massachusetts, in Franklin County. It is bordered on the North by the State of Vermont, on the West by Berkshire County, on the South by Hampshire County, and on the East by Ashfield, Buckland and Colrain. Hawley has a population of about 230 people. The Town of Hawley was named in honor of Joseph Hawley of Northampton, and was incorporated on February 6, 1792.

   The principal highways serving the area are Routes #2 and 8A. There is no public transportation serving the Town of Hawley. Water in the Town is procured from springs, streams and driven wells.

   The Town is a member of the Mohawk Trail Regional School District, as well as the Hawlemont Regional School District.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Hawley lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Rowe Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Hawley lie in Sectors "H" and "J". (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Hawley Basic Operations Plan as supplemented by this Plan. The Town Hall will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Hawley Police of a "CODE YELLOW" message; either through Franklin County Police Net; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;

2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;

3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the

Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;
4. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;
5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,
6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A — WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Police Department. Initial warning will come from Franklin County Police Net.

Back-up and validation messages will be received as follows:

1. State Police to Hawley Police
2. Franklin County Police to Hawley Police
3. Massachusetts Civil Defense to local Civil Defense

B. Notification of Local Officials

1. The Civil Defense Director and/or Hawley Police will notify the following agencies and officials by telephone:

   Chairman, Board of Selectmen
   Highway Department
   Board of Health
   Charlemont Ambulance Service

2. Upon establishment of emergency operations at the Town Hall, the local Civil Defense Director or a designee will determine notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be civil defense volunteers, dispatched on established routes to conduct door-to-door notification throughout Hawley. Civil Defense assignments and routes appear as Attachment 1 to this Annex.

2. Radio Station WHAI and Channel 3 and Channel 10 will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

3. Cross country skiers and others using the Stumpp Sprouts Ski Area and the Chickley Alps Ski Area will be notified by personnel of Hawley Civil Defense volunteers.

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

Notification, evacuation, shelter and reception plans include only parts of the Town of Hawley. It is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in a southerly direction, it is possible that a recommendation might be made to evacuate only a small part of the Sector.

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in their homes.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means of preventing people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

East	Buckland Road at Town Line;
South	Route 8A at Town Line;
West	Savoy Road at Town Line.

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

   From E. Hawley use Buckland Road to Rt. #112 to Mohawk Regional School;

   The balance of the zone will use South River Rd., Route #2 to Mohawk Regional School.

ANNEX C PROTECTIVE RESPONSE — FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

All available potable water for the town residents is drawn from covered wells.

Upon notification to the town by the State Department of Public Health or Department of Environmental Quality Engineering that any source is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;

2. Assisting State authorities, upon request, in disseminating notification of necessary actions;

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of: 1) dairy farms; 2) sources of stored feed; and 3) commercial and large produce farms appear as Attachment A to this Annex.

There are two (2) farms in Hawley:

1. Clark Farm - East Hawley
2. White Farm - West Hawley

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;

2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;

2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;

3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters;

4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;

2) Distributing dosimeters during an emergency;

3) Advising Police and other personnel of exposure guidelines for emergency workers;

4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Town Hall;

2) Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Town Hall, to pick up (1) high level and (1) low level dosimeter;

3) The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;

4) The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Hawley Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Rowe Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Rowe Yankee Nuclear Power Station the Hawley Civil Defense Director, or his designee, will contact Radio Station WHAI in Greenfield to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic at its Yankee Rowe Nuclear Power Station in Rowe, Massachusetts. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat — DO NOT GO TO THE PLANT — DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

F-2

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT — STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Hawley Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2) Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Rowe Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in Buckland, and elsewhere outside of the Town of Hawley. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Rowe Yankee area.)

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Charlemont Fire Ambulance will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Rowe Yankee area.

TOWN OF HEATH

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Heath with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Heath is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Heath Fire (via NAWAS — see Section VI below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Yankee Rowe is located in the Town of Rowe, Mass., in Franklin County on the East shore of the Deerfield River. Site coordinates are approximately 42°43'39" N latitude and 72°55'55" W longitude.

2. The Town of Heath, the center of which is approximately seven (7) miles SSE of Yankee Rowe NPS, could be affected by a major accident at the Yankee Rowe NPS, and could result in recommendations that protective action be taken in Heath with respect to foodstuffs, especially dairy cattle and milk.

   Heath is situated East of the Town of Rowe and is on the Vermont and Massachusetts state line.

   The principal road in the Town is Route 8A, which runs North and South. Principal roads from Heath Center are South Road and Avery Brook Road which both serve as connectors to Charlemont.

3. The population of Heath numbers approximately 425 native residents with approximately 100 summer residents. The Town is also the site of Mohawk Estates, a recreation camp area with approximately 750 lots.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Heath lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Rowe Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Heath lie in Sectors "E", "F", and "G". (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Heath Basic Operations Plan as supplemented by this Plan. The Fire House will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Heath Fire of a "CODE YELLOW" message; either through Greenfield Fire (National Attack Warning System), via Tri-State Mutual Aid; or Franklin County Police Network; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;
4. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;
5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,
6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Greenfield Fire over the Tri-State Mutual Aid System or from the Franklin County Police Network.

Back-up and validation messages will be received as follows:

1. State Police to Heath Police

2. Franklin County Police to Heath Police

3. Massachusetts Civil Defense to local Civil Defense

Red phones and monitors should be used to acknowledge initial alerts.

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Local Fire will notify the following agencies and officials by telephone:

Civil Defense
Chariman, Board of Selectmen
Highway Department
School Department

The official notification call list appears as an Attachment to this Annex.

2. Upon establishment of emergency operations at the Fire House Annex, the local Civil Defense Director or a designee will determine notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Heath, to conduct a door-to-door and loud-hailer notification. Engine assignments and routes appear as Attachment 1 to this Annex.

2. The local police cruiser PA system will function as back-up to Fire Department vehicles for door-to-door notification. The Mohawk Estates Security Police will cooperate in this endeavor.

3. Radio Station WHAI and Chennel 40 and 22 will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

4. At Mohawk Estates, the Mohawk Estates Security Police will be responsible for notification and warning.

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include the entire Town of Heath, it si more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in a southerly direction, it is possible that a recommendation might be made to evacuate only a small part of one Sector (e.g. Sector F and G). In such cases local officials may choose to direct evacuees in an easterly or southerly direction.

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

East	Colrain Road, Colrain Stage and Colrain Brook at Town Line;
South	Avery Brook, South Road and Burrington Road and #8A at Town Line;
North	Brunell Rd. at Stage Rd.; Underwood Hill Rd. at Sodago Rd.; Number Nine Rd. at Stage Rd.

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

   a. South on #8A to Rt. 2, east on Rt. 2 to Rt. 112 to Mohawk Regional School;

   b. South on South Road to Burrington Hill, South on Burrington Road to Avery Brook Road, south on Avery Brook Road to Rt. 2 then east on Rt. 2 to Rt. 112, then south on Rt. 112 to Mohawk Regional School.

6. Mohawk Estates will be advised to evacuate leaving Heath via Avery Brook to Rt. 2. The Mohawk Estates Security Police will be responsible for notification and warning.

ANNEX C PROTECTIVE RESPONSE — FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Heath water requirements is served by private springs and wells. All wells have protective coverings.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

2a. The following two (2) farms will receive notification and warning information from police authority:

Robert Tripp and John Cable, both located on Flagg Hill Rd.

IV. INVENTORIES

Inventories of: 1) dairy farms; 2) sources of stored feed; and 3) commercial and large produce farms appear as Attachment A to this Annex.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;

2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;

2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;

3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters;

4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1. Maintaining adequate inventories of both high and low range personal dosimeters;
2. Distributing dosimeters during an emergency;
3. Advising Fire, Police and other personnel of exposure guidelines for emergency workers;
4. Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1. Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Fire House;
2. Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Fire House to pick up (1) high level and (1) low level dosimeter;
3. The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;
4. The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Heath Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Rowe Yankee Nuclear Power Station.

III. PROCEDURES

Upon notification that there has been an incident at the Yankee Rowe Nuclear Power Station the Heath Civil Defense Director, or his designee, will contact Radio Station WHAI in Greenfield and Channel 40 TV to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Rowe Nuclear Power Station in Rowe, Mass. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat — DO NOT GO TO THE PLANT — DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Yankee Rowe Nuclear Power Station in Rowe, Mass. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go the the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT — STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Rowe Nuclear Power Station in Rowe, Mass. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (Continued)

The Heath Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If any evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1. Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.
2. Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.
3. Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Vermont Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in Buckland, and elsewhere outside of the Town of Heath. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Rowe Yankee area.)

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Kidder Ambulance Service will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Rowe Yankee area.

TOWN OF MONROE

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Monroe with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Monroe is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Monroe Fire (via NAWAS — see Section VI) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. The Rowe Yankee Nuclear Power Station is located in the Town of Rowe, Massachusetts, in Franklin County on the East shore of the Deerfield River. Site coordinates are approximately 42°43'39" North latitude and 72°55'55" West longitude.

2. The Town of Monroe, the center of which is approximately 2 miles west of Rowe Yankee, could be affected by a major accident. Further, major accident at either Yankee Vermont about 25 miles east of Monroe or at the proposed Nuclear Power Station at Montague could result in recommendations that prospective actions be taken in Monroe with respect to foodstuffs, especially dairy cattle and milk.

   Monroe is bordered on the North by the state of Vermont, on the East by Rowe, on the South and West by Florida. It is about 126 miles from Boston, 31 miles from Greenfield, and 180 miles from New York City.

   Principal roads are River Road and Main Road. River Road runs North and South along the West bank of the Deerfield River connecting to Readsboro, VT and VT Route 100, and extending South to Hoosac Tunnel in Florida, Mass. and continuing from there to Route #2 (The Mohawk Trail). Main Road runs about parallel with River Road but runs along the top of the mountains about a mile west of River Road. Main Road connects with South Readsboro Bosley Hill Road on the North, and runs South to Tilda Hill Road in Florida, Mass. which extends to Mass. Route #2 (Mohawk Trail). Kingsley Hill Road connects River Road and Main Road at Monroe Bridge Village. Mill St. in Monroe Bridge connects from River Road across the bridge to Monroe Hill Road in Rowe.

3. Monroe was settled about 1800 and incorporated in 1822. The Town was named in honor of the then president of the United States. Monroe is the smallest manufacturing town in Massachusetts. The principal employer and the mainstay of the town's economy is the Deerfield Glassine Company with and employment almost the same as the town's population, which is about 225.

   There are no direct rail, air, or bus facilities in Monroe.

   Monroe is accessible by car from Mass. State Route #2 which is a principal cross state highway. Air and trucking facilities for the area are centered in the City of North Adams.

   Monroe has an elementary school which accommodates 80 pupils. Deerfield Specialties Mill with approximately 125 employees operates 24 hours per day, 7 days a week.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Monroe lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Rowe Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Monroe lie in Sectors "A", "L", "M", "N", "P", "Q", and "R". (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Monroe Basic Operations Plan as supplemented by this Plan. The Town Hall will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Monroe Fire of a "CODE YELLOW" message; either through Greenfield Fire (National Attack Warning System), via Tri-State Mutual Aid; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the

Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;

2. Activation of all required emergency response units;

3. Invoking of mutual aid arrangements;

4. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,

6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Greenfield Fire over the Tri-State Mutual Aid System. A red phone is located at Deerfield Specialties Mill. This is manned 24 hours per day, 7 days per week. It is also manned on holidays.

Back-up and validation messages will be received as follows:

1. State Police to Monroe Police
2. Franklin County Police to Monroe Police
3. Massachusetts Civil Defense to local Civil Defense

Red phones and monitors should be used to acknowledge initial alerts.

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Local Police will initiate notification procedure.
2. Local Fire will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department
Board of Health
Whitingham Ambulance Service

The official notification call list appears as an Attachment to this Annex.

3. Upon establishment of emergency operations at the Town Hall, the local Civil Defense Director or a designee will determine notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Monroe, to conduct a door-to-door and loud-hailer notification. Engine assignments and routes appear as Attachment 1 to this Annex.

2. The local police cruiser PA system will function as backup to Fire Department vehicles for door-to-door notification.

3. Radio Station WHAI and Channel 10 will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include the entire Town of Monroe, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in a southerly direction, it is possible that a recommendation might be made to evacuate only a small part of one Sector.

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

   Kingsley Hill Road (which is closed from about Dec. 1 to April 1 each year);

   Turner Hill Road in Readsboro, VT;

   Whitcomb Hill Road in Hoosac Tunnel, Florida, Mass.;

   Mill Street at the Bridge;

   Cooperation will of necessity be required with Readsboro VT, and the Towns of Florida and Rowe, Mass.

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

   River Road and Main Road, either to VT Rte 100 then thru Clarksburg to Rte 2 West to Barbour Street to the Greylock School or Rte 2 West to West Shaft Road in North Adams to the McCann School.

6. The Monroe School Department shall be responsible for evacuation of students and faculty from the elementary school and Center School, if in session.

   Evacuation will be carried out as follows:

   Students and faculty from the Elementary School will be transported by bus to the Reception Center.

ANNEX C PROTECTIVE RESPONSE — FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

The water supply for the Center of Town, about 50% of the population, is an open reservoir which is filtered. The water then goes into a covered storage tank (30,000 gal.). All other water supplies are covered.

Upon notification to the town by the State Department of Public Health or Department of Environmental Quality Engineering that any reservoir source is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include: notifying owners of the 6 cows in Town to bring cattle into barns and provide stored feed.

1. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of: 1) dairy farms; and 2) sources of stored feed.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;
2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters;
4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.
2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;

2) Distributing dosimeters during an emergency;

3) Advising Fire, Police and other personnel of exposure guidelines for emergency workers;

4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Town Hall;

2) Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Town Hall, to pick up (1) high level and (1) low level dosimeter;

3) The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;

4) The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Monroe Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Rowe Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Rowe Yankee Nuclear Power Station the Monroe Civil Defense Director, or his designee, will contact Radio Station WHAI in Greenfield to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat — DO NOT GO TO THE PLANT — DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT — STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Rowe Nuclear Power Station in Rowe, Massachusetts. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Monroe Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2) Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Rowe Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in Buckland, and elsewhere outside of the Town of Monroe. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Rowe Yankee area.)

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Whitingham Ambulance Service will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Rowe Yankee area.

City of North Adams

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the City of North Adams with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could effect the health and safety of the public.

II. AUTHORITY

a. The City of North Adams is governed by the Mayor as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Mayor has appointed a local Civil Defense Director. The Mayor is responsible by law for the health and safety of persons and property, and exercises this authority, during Civil Defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan had been developed in accordance with local responsibilities of the City under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for a quick action on the part of local officials, a recommendation from the Commonwealth to North Adams Fire (via NAWAS - see Section VI.6. below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. Necessary actions to implement the reception from the Towns of Florida, Clarksburg and Monroe will be taken as further described in the annexes. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Yankee Rowe is located in the Town of Rowe, Massachusetts, in Franklin County on the East Bank of the Deerfield River.

2. The City of North Adams which has about 50% of its geographical

area being the easterly part thereof within 10 miles of the Yankee Rowe NPS could be affected by a major accident at the Rowe Yankee NPS. Further major accidents at either the Vermont Yankee NPS (approximately 35 miles east of North Adams) or at the proposed NPS at Montague could result in recommendations that protective actions be taken in North Adams with respect to foodstuffs, especially dairy cattle and milk.

Principal highways are Route 2 which runs east and west and Route 8 which runs north and south. The town is the site of North Adams State College, the McCann Regional Technical Vocational School, and a number of public schools. Other facilities include the North Adams Regional Hospital, several nursing homes and resident care facilities, the historic Valley Campground and the Harriman Airport.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in North Adams lies with the emergency forces of the town. The Mayor has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, are prepared to deal effectively with limited disaster or emergency conditions in the community, and to receive evacuees from the affected communities, including part of North Adams.

3. The City will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the city or which would require the city to receive evacuees. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out;

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter;

5. Provide for the reception and care of persons evacuated due to a radiological emergency.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat direct gamma external exposure from the linquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which may have become contaminated, and of milk which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Yankee Rowe NPS has been divided into sixteen (16) radial sectors. Sector "A" has a centerline pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of North Adams lie in Sectors M and N. (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the North Adams Basic Operations Plan as supplemented by this plan. Harriman Airport CAP Building, Route 2, will be utilized as the primary Emergency Operating Center, with City Hall available as an alternate E.O.C.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan. These responsibilities, and others peculiar to the Radiological Emergency Response Plan are reflected in the annexes to this plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by North Adams Fire Dept. of a "CODE YELLOW" message through the National Attack Warning System (NAWAS) confirmed by the Berkshire County Fire Net, Berkshire County Police Net, or via State Civil Defense, Area IV (Belchertown), the following actions will be taken immediately.

1. All local officials will be notified in accordance with Annex A - Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A- Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center(s);
2. Activation of Reception Centers;
3. Activation of all required emergency response units;
4. Invoking of mutual aid arrangements;
5. Requesting state and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;
6. Assembly and provision of the intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,
7. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A

WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases; (1) receipt of initial warning from the State or the Power Station; (2)notifications of involved local officials of a standby, alert or emergency operations condition, and (3) notification of the public of the situation and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come to North Adams Fire over the NAWAS and then will be communicated over the Tri-State Mutual Aid System.

Back-up and validation messages will be received as follows:

1. County Fire to North Adams Fire
2. County Police to North Adams Police
3. Massachusetts Civil Defense to local Civil Defense

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. North Adams Fire to North Adams Police
2. Local police will initiate Signal 100 Major Incident notification procedure.
3. Local Fire will notify the following agencies and officials by telephone:

   Civil Defense
   Mayor
   Board of Health
   North Adams Regional Hospital

4. Local Police will notify the following agencies and officials by telephone:

   Highway Department
   School Department (including McCann Regional)
   North Adams State College
   County Sheriff

5. Civil Defense will notify

   Board of Health
   Civil Air Patrol
   News and Broadcast Media

6. Upon establishment of emergency operations at the Harriman Airport or City Hall, the local Civil Defense Director or a designee will determine validate notification, and where necessary, assume responsibilty for completion of notification.

   The official notification call list appears on Attachment 1 to this annex.

c. Public Notification

1. The primary mechanism for the public notification will be a signal sounded from the Fire Station, activating the sirens located throughout the city. In addition, Civil Defense mobile radio teams, dispatched on established routes will conduct a loud-hailer notification for those areas beyond the range of the sirens. Specific assignments and routes appear as Attachment 2 to this Annex. Police and Fire vehicles are available to assist in the street-by-street notification. Audible warning devices are to be tested monthly.

2. A continuous public information campaign will be initiated to make the public aware that the Civil Defense signal is notification of a potential disaster situation and that they should tune to their broadcast media.

3. Radio Station WMNB (AM-FM) 1230 Kh and 100.1 Mh will receive public warning messages from both State Civil Defense and local Civil Defense and transmit appropriate information to the public. They will forward information to TV Channel 19 and Cable TV to Channel 7. Other radio and TV stations received locally will also be carrying emergency public information.

ATTACHMENT 1

ROSTER OF KEY OFFICIALS

Mayor	663-6370
Civil Defense Director (Jeanette Sullivan)	662-2924
North Adams Police Dept.	663-5343
Department of Public Works	663-6765 663-5140 663-5510
American Red Cross	663-7006
North Adams Superintendent of Schools	663-3793
Robert Maron - Home	663-6045
North Adams State College	664-4511
Civil Air Patrol - George Sarrouf	458-3311
Alternate ----- Elmer Potter	663-6019
North Adams Fire Dept.	663-3725
Board of Health	663-3701
McCann Regional School	663-5383
Historic Valley Campground	664-9228
Y.M.C.A.	663-6529
North Adams Regional Hospital	663-3701
Adams Nursing Home	664-6691
Richardson Rest Home	663-8035
J. T. Bus Company	663-7021

ATTACHMENT 2

PUBLIC NOTIFICATION ROUTES

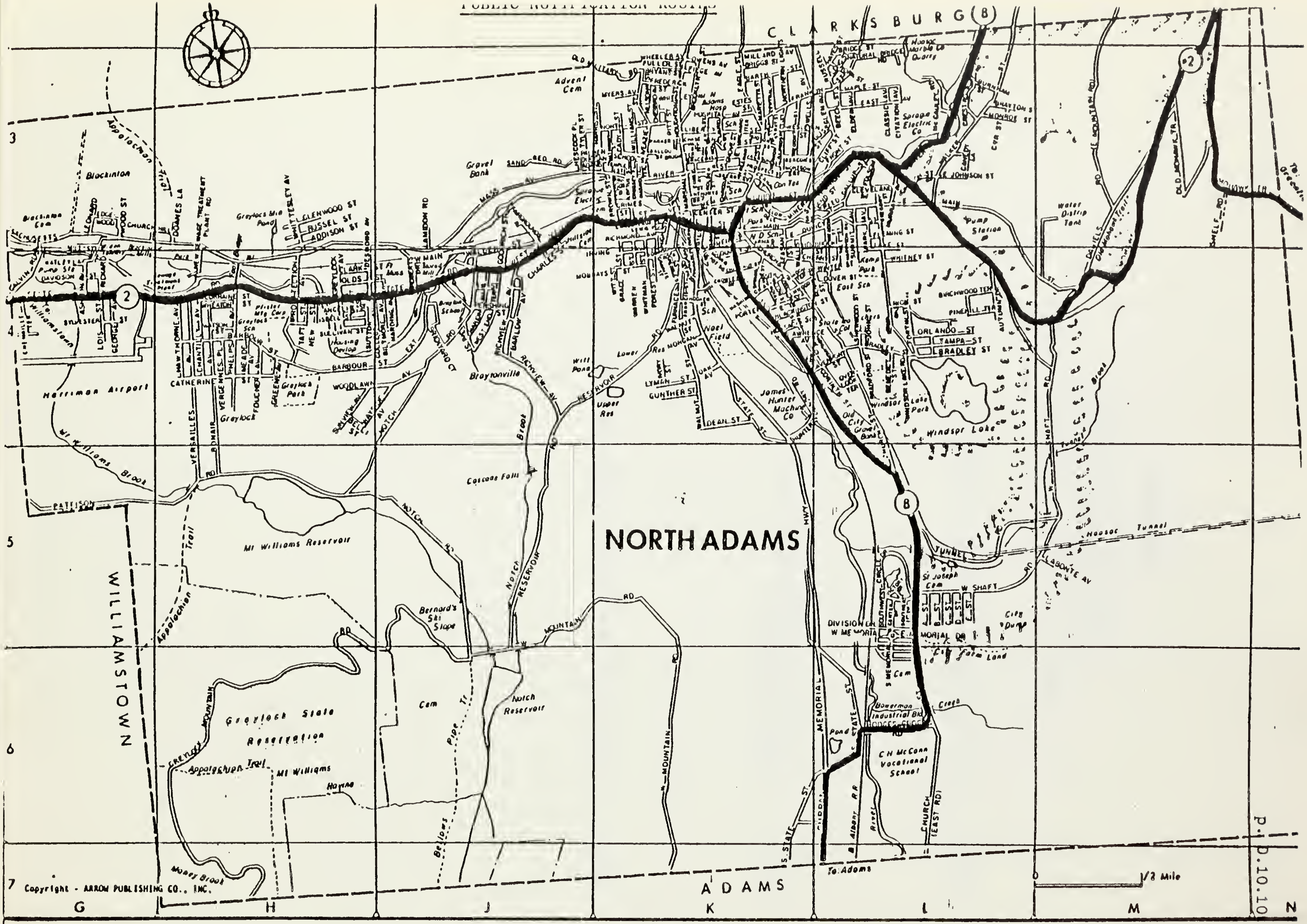
(Areas Not Covered by Audible Warning)

ROUTE A - East of Route 8 and North of Route 2.

ROUTE B - West Shaft Road and side streets between Route 8 and Route 2.

ROUTE C - Windsor Lake and Historic Valley Campground Area.

PUBLIC NOTIFICATION ROUTES


NORTH ADAMS
CLARKSBURG
WILLIAMSTOWN
ADAMS
To Adams
To Greenfield
2
8
Blackinton
Blackinton Cem
Harriman Airport
Mt Williams Brook
Mt Williams Reservoir
Greylock State Reservation
Appalachian Trail
Mt Williams
Money Brook
Notch Reservoir
Bernard's Ski Slope
Cascade Falls
Braytonville
Gravel Bank
Advent Cem
Windsor Lake
Hoosac Tunnel
St Joseph Cem
City Dump
City Farm Land
Bowerman Industrial Bld
C H McCann Vocational School
James Hunter Machine Co
Noel Field
Sprague Electric Co
Hoosac Marble Co Quarry
Pump Station
Water Distrib Tank
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ANNEX B

PROTECTIVE RESPONSE

EVACUATION, SHELTER AND ACCESS CONTROL

I. INTRODUCTION

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radiostopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter, and reception plans include most of the population of the City of North Adams, it is more likely that protective actions would be recommended for those areas nearest the power station, and not require any protection action in North Adams.

Also, while plans involve a potential evacuation of all or part of several communities, it is possible that a recommendation might be made to evacuate only a small part of one Sector (e.g., Sector H, miles 4 and 5). In such cases, local officials of other communities may choose to direct evacuees in a general southerly direction, and not to North Adams.

Shelter Access Control and Evacuation Actions are covered separately below.

II. SHELTER

A. General

Depending upon the time available, citizens may be advised to take shelter in one of two ways: (1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or (2) Take the best available shelter in homes, schools, offices or plants. A copy of the Community Shelter Plan (CSP) allocation map is included as Attachment 1 to this Annex.

Home basement and interior rooms can provide significant radio iodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the local Civil Defense Director, in accordance with Annex A.

3. The local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. ACCESS CONTROL

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Mayor, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Mayor, provide the Mayor with all necessary intelligence, and, in his absence, initiate necessary access control actions.

3. Responsibility for carrying out access control action rests primarily with the Police Department with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary depending upon the affected area. Key points are:

East	Route 2 entering North Adams
North	Route 8 entering North Adams
South	Route 8 entering North Adams
West	Route 2 entering North Adams Mass. Ave. at Protection Avenue

IV. EVACUATION

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Mayor, Governor, or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

Because of the size of the NPP at Rowe and the topography of the area including a mountain range between the valley locations of Rowe and North Adams, and the prevailing winds which are generally away from North Adams in relationship to Rowe, detailed evacuation plans extend out to about a nine-mile radius from the NPP. The density of the population in the 9-10 mile radius and inadequacy of the road systems make this a prudent decision by the local community.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Mayor.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Mayor, provide the Mayor with all necessary intelligence, and, in his absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense, including the State Police and County Sheriff.

   (a) Upon receipt of notification of the pending arrival of evacuees, the North Adams Civil Defense Director will notify the North Adams Police Chief and the North Adams Department of Public Works.

   (b) The Police Chief will assign traffic control officers as indicated in the Police Annex.

   (c) The Department of Public Works Superintendent will provide for the placement of the necessary traffic control signs for direction to the registration and housing locations as indicated in the Public Works Annex.

5. The evacuation routes and reception centers for people from North Adams, Florida, Clarksburg, Monroe and Savoy are shown in Attachment 2 to this Annex.

In general, the North Adams Hospital, located about 9½ miles from the Nuclear Power Station will not evacuate. However, the hospital administration may decide to move certain patients, such as, pregnant women and young children, to the Berkshire Medical Center in Pittsfield via Route 8.

Occupants of the East School and Middle School will be transferred to the McCann Regional School by school bus.

Hospital and School Evacuation Plan are detailed in Attachment 2.

North Adams Regional Hospital, North Adams State College, Drury High School and McCann Regional School are all located between 9 and 10 miles and, although detailed plans for evacuation have not been developed, a further evacuation could be ordered as follows:

1. People not already evacuated from the North Adams Regional Hospital will be moved to Berkshire Medical Center in Pittsfield via Route 8.

2. People at North Adams State College and Drury High School will be evacuated to Hoosac Regional High School in Adams via Church Street, East Road and East Street.

3. People at the McCann Reginnal School will be evacuated to Adams Memorial Junior High School and the Adams National Guard Armory via Route 8.

ATTACHMENT 1

NORTH ADAMS

COMMUNITY SHELTER PLAN

IF YOU ARE:

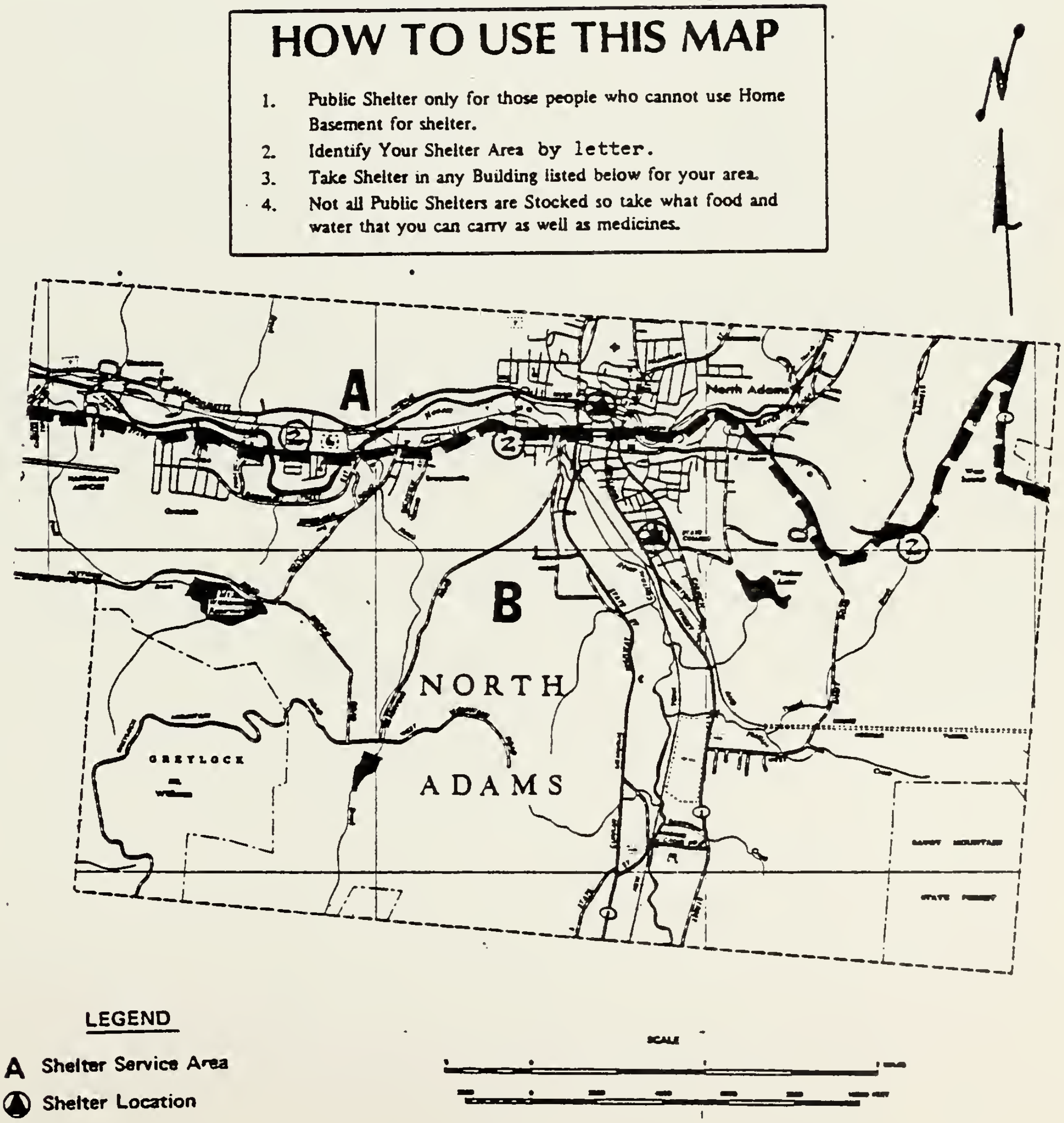
North of Route 2 (Area A) go to the former St. Joseph's School Building, Eagle Street.

IF YOU ARE:

South of Route 2 (Area B) go to North Adams State College, Church Street.

HOW TO USE THIS MAP

1. Public Shelter only for those people who cannot use Home Basement for shelter.
2. Identify Your Shelter Area by letter.
3. Take Shelter in any Building listed below for your area.
4. Not all Public Shelters are Stocked so take what food and water that you can carry as well as medicines.



LEGEND

A Shelter Service Area

▲ Shelter Location

ATTACHMENT 2

ASSIGNMENT OF TRAFFIC CONTROL OFFICERS

ATTACHMENT 2

EVACUATION ZONES AND ROUTES - RECEPTION CENTERS

NORTH ADAMS

Evacuation Route

Ward 1 - Route 2 to Brickyard Ct. to Y.M.C.A. (Pop.-3422)

Ward 2 - Church St. or State St. to McCann School (Pop.-3423)

CLARKSBURG TO NORTH ADAMS

Evacuation Route

Houghton or Eagle St.

To River St. and Mass. Ave.

To Protection Ave. Across Rte 2

To Barbour St.

To Greylock School

FLORIDA & MONROE TO NORTH ADAMS

Evacuation Route

Route 2 to West Shaft Rd. to
Church St. to McCann School

ATTACHMENT 2

EVACUATION ZONES AND ROUTES - RECEPTION CENTERS (cont.)

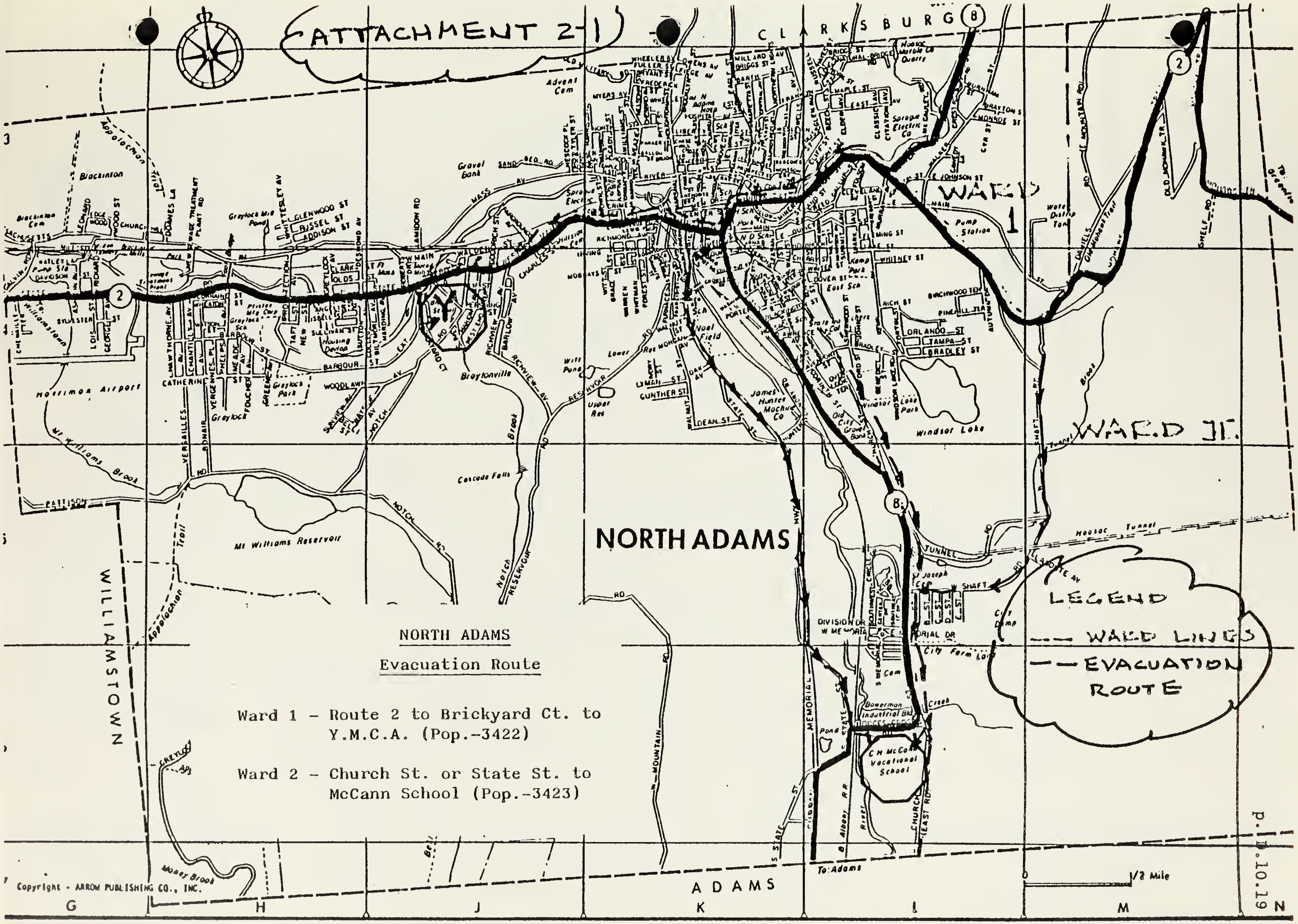
SAVOY TO NORTH ADAMS

Evacuation Route

Route 116 West to Route 8 North

To McCann School

ATTACHMENT 2-1


CLARKSBURG
WARD 1
WARD II
NORTH ADAMS
WILLIAMSTOWN
ADAMS
LEGEND
WARD LINES
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To: Adams
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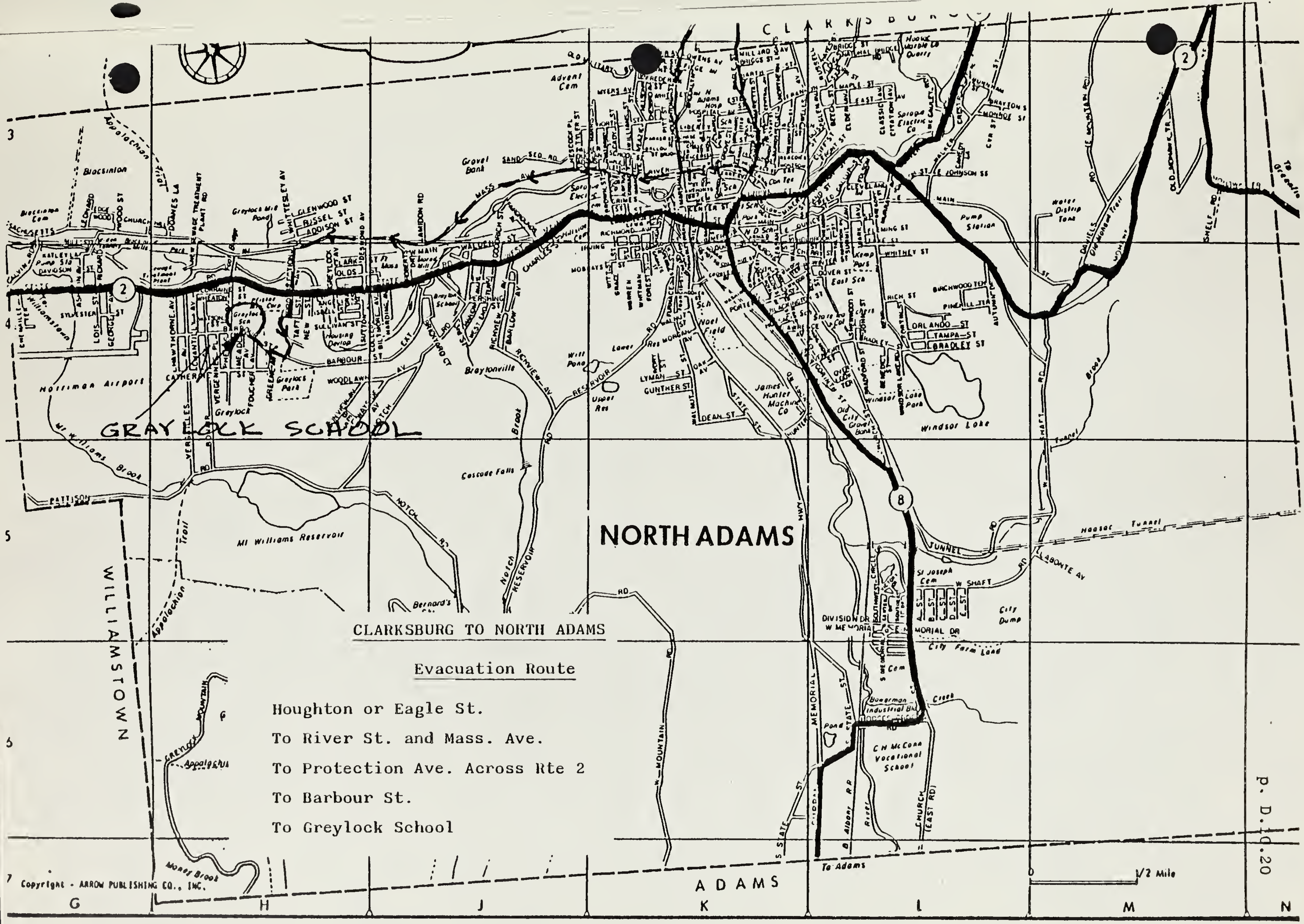
NORTH ADAMS

Evacuation Route

Ward 1 - Route 2 to Brickyard Ct. to Y.M.C.A. (Pop.-3422)

Ward 2 - Church St. or State St. to McCann School (Pop.-3423)


CLARKSBURG
NORTH ADAMS
WILLIAMSTOWN
ADAMS
GRAYLOCK SCHOOL
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To Adams
To Greenville
1/2 Mile
G
H
J
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4
5
6
7

CLARKSBURG TO NORTH ADAMS

Evacuation Route

Houghton or Eagle St.

To River St. and Mass. Ave.

To Protection Ave. Across Rte 2

To Barbour St.

To Greylock School

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ATTACHMENT Z-3

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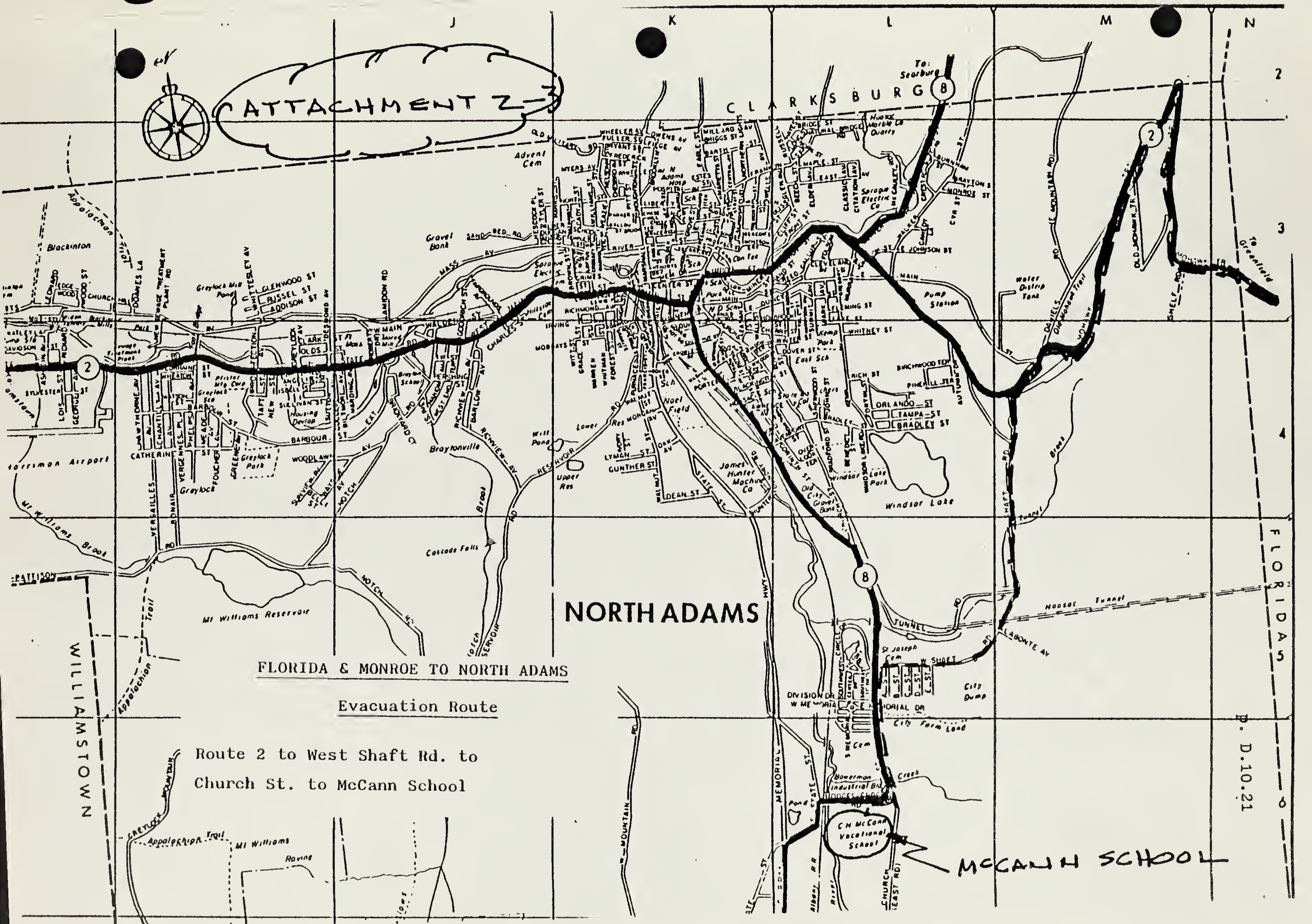


NORTH ADAMS
CLARKSBURG
FLORIDA
WILLIAMSTOWN
To: Stamford
To Greenfield
2
8
C H McCann Vocational School
McCANN SCHOOL
Hoosac Tunnel
Windsor Lake
Mt Williams Reservoir
Blackinton
Harriman Airport
Braytonville
Cascade Falls
Appalachian Trail
J
K
L
M
N
2
3
4
5
6

FLORIDA & MONROE TO NORTH ADAMS

Evacuation Route

Route 2 to West Shaft Rd. to
Church St. to McCann School

Underdevelopment:

ATTACHMENT 2-4

SAVOY TO NORTH ADAMS —
Evacuation Routes Map

ANNEX C

PROTECTIVE RESPONSE

FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuff, and particularly of milk which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Possible actions in the event of contamination of potable water near Mt. Greylock include: (1) Shutdown of flow from Reservoir, and the use of well water only by North Adams DPW Water Department, Declaration of water use for essential services only.

Upon notification to the City by the State Department of Public Health or Department of Environmental Quality Engineering that any reservoir source is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;

2. Assisting state authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to food stuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting state authorities, upon request, in disseminating public information relative to necessary actions.
3. Advising people as to the use of garden produce, meat or dairy products.

IV. INVENTORIES

Inventories of: (1) dairy farms; (2) sources of stored feed; and (3) commercial and large produce farms appear on Attachment 1 to this annex.

ATTACHMENT 1

1. Dairy Farms
   - a. Modern Dairy, 208 State Road - 663-9665
   - b. Mt. Williams Dairy, Luce Rd., Williamstown - 458-4214
2. Sources of Stored Food
   - a. Agway, Inc., 169 Cole Ave., Williamstown - 458-4880
   - b. Blue Seal Feeds, Adams - 743-0163 - 743-0831
3. Farms
   - a. No commercial or large-scale farms

ANNEX D

RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological capability will be utilized to:

1. Supplement and validate intelligence available to State authorities.

2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order.

2. Arranging appropriate training for personnel of the City and volunteers in radiation monitoring.

3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters.

4. Supporting, where necessary, monitoring requirements of reception centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E

EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1. Maintaining adequute inventories of both high and low range personal dosimeters.
2. Distributing dosimeters during an emergency.
3. Advising fire, police and other personnel of exposure guidelines for emergency workers.
4. Assisting state authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will begin distribution of dosimeter equipment at the City Hall and Emergency Operating Center (E.O.C.).
2. Chiefs of services will direct all emergency workers assigned to potentially hazardous areas to the City Hall or E.O.C. to pick up (1) high level and (2) low level dosimeters.
3. The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings.
4. The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.
    a. A decontamination station will be set up in the North Adams Regional Hospital.

    b. The station will be manned by hospital personnel augmented with personnel from the State Civil Defense Radiological Facility at Fort Devens and State Board of Health.

IV. HOSPITALIZATION

North Adams Regional Hospital

ANNEX F

PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuance of public information.

II. RESPONSIBILITY

The Mayor or his/her designee, is responsible for issuing public announcements relative to the occurence of an incident at the Yankee Rowe Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Yankee Rowe Nuclear Power Station, the Mayor or his/her designee, will contact the radio stations in North Adams and other media to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

This is Mayor ________________ of North Adams (or alternate). An alert has been declared by Yankee Atomic for its Yankee Rowe Nuclear Power Station in Rowe, Massachusetts. This alert has resulted because of an emergency condition at the plant site. NO radiation hazard exists and NO danger is expected outside the plant boundary. Stay tuned to this Radio/TV station for further information. DO NOT GO TO THE PLANT AREA. REPEAT - DO NOT GO TO THE PLANT - DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

This is Mayor ________________ of North Adams (or alternate). An emergency alert has been declared by Yankee Atomic for its Yankee Rowe Nuclear Power Station in Rowe, Massachusetts. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. DO NOT CALL OR GO TO THE PLANT AREA. Local and State public health and civil defense officials will advise if other steps are required. REPEAT - THIS IS AN EMERGENCY ALERT - STAY TUNE FOR INSTRUCTIONS.

NEWS RELEASE #3

This Mayor ________________ of North Adams (or alternate). An emergency alert has been declared by Yankee Atomic for its Yankee Rowe Nuclear Power Station in Rowe, Massachusetts. If a public hazard develops, you will be notified via this Radio/TV station and/or Civil Defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) DO NOT CALL OR GO TO THE PLANT AREA. DO NOT EVACUATE UNLESS ORDERED. STAY TUNED FOR FURTHER INFORMATION.

PROCEDURE (continued)

The Mayor (or alternate) will issue further information to the public periodically over the Radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G

SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this annex are:

1. Public Safety - the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.
2. Social Services - the provision of food, shelter, clothing and routine medical services for evacuees.
3. Emergency Medical Services - includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for Communities in the vicinity of Yankee Rowe Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas and in directing traffic to reception center(s), and will undertake appropriute action, upon notification by the Civil Defense Director that evacuation will begin utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other state resources. Requests for state assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers.

C. Emergency Medical Services

The Ambulance Service regularly servicing the North Adams Regional Hospital will provide emergency medical services, as required, following standard operating procedures. Patients other than those that may be contaminated with radioactive material will be treated at the hospital. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ATTACHMENT 1

SOCIAL ASSISTANCE

1. Red Cross

ANNEX H

PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedure in this Annex involves those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and are familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other agencies and departments are responsible for initiating necessary plan changes, maintaining the department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Yankee Rowe area.

Appendix A

Police Department

I. Warning and Notification

A. The Police Department will notify the following:

Highway Department
School Department (including McCann Regional)
North Adams State College
County Sheriff

B. Police Department vehicles will assist in warning outlying residents in Wards 1 and Ward 2 by the use of sirens in street-by-street coverage.

1. One vehicle to cover the area East of Route 8 and North of Route 2.
2. One vehicle to cover the Windsor Lake area.
3. One vehicle to cover West Shaft Road and the South End of Church Street.

II. Shelter

A. The following traffic points will be manned to facilitate movement to the public shelters at the former St. Joseph's School building on Eagle Street and North Adams State College on Church Street if this shelter option is exercised:

1. Eagle Street at St. Joseph's School
2. Eagle Street and Route 2
3. Church Street at Main Street
4. Church Street at North Adams State College
5. Other points as determined by need

B. A police officer will be assigned to each shelter.

III. Access Control

A. The following access control points will be manned by a police officer:

East	Route 2 entering North Adams
North	Route 8 entering North Adams
South	Route 8 entering North Adams
West	Route 2 entering North Adams
	Mass. Ave. at Protection Avenue

IV. Evacuation

A. To prepare for the orderly reception of evacuees and timely movement to reception centers, the following traffic control points will be manned by a uniformed police officer. Traffic control points are not necessarily limited to this list.

1. Route 2 at West Shaft Road
2. West Shaft Road at Church Street
3. Church Street at McCann School
4. Junction Route 8 and Route 2
5. Church Street at Ashland Street
6. Church Street at North Adams State College
7. Route 8 at Hodges Cross Road
8. Houghton Street at River Street
9. Eagle Street at River Street
10. Protection Avenue at Mass. Avenue
11. Protection Avenue at Route 2
12. Protection Avenue at Barbour Street
13. Greylock School entrance
14. Route 2 at Brickyard Court
15. Brickyard Court at Y.M.C.A. entrance
16. Middle School entrance
17. East School entrance

B. Security of evacuated areas.

1. Police will provide security on the perimeter evacuated areas, radiation levels permitting.

C. The police will provide for free movement of busses from the Middle and East Schools and emergency vehicles to and from the hospital.

V. **Assistance**

A. Normal mutual aid systems may be activated with surrounding communities.

B. Requests for County and State Police assistance will be made through Civil Defense.

VI. **Protective Response**

A. In the event of water use restriction, the Police Department will enforce the term of the restriction; i.e., watering of lawns, etc..

Appendix B

Fire Department

I. Warning and Notification

A. The Fire Department will notify the following: Civil Defense, Mayor, Board of Health and North Adams Regional Hospital

B. The audible warning signal will be sounded from the Fire Station consisting of a steady three-to-five minute blast or sound.

1. The signal may also be sounded from the Wire Inspector's Office in City Hall, if necessary.

C. Fire Department vehicles will serve as backup to the Police Department in the street-by-street public notification. (See Police Annex for areas).

D. The Fire Department will periodically test and insure that all audible warning devices are operational.

II. Shelter

A. The Fire Department will provide fire protection monitors at the former St. Joseph's School and North Adams State College shelters.

III. Access Control

A. The Fire Department will provide backup assistance for the Police Department in manning access control points.

IV. Evacuation

A. The Fire Department will provide fire protection monitors at the McCann School, Graylock School, and Y.M.C.A. reception centers as well as additional reception centers or congregate care facilities as may be set up.

V. Assistance

A. All full-time, call, or auxiliary Fire Department personnel will be mobilized.

B. Normal mutual-aid systems may be activated.

C. Other requests for assistance shall be directed to Civil Defense.

Appendix C

Public Works Department

I. Warning and Notification

The Public Works Department vehicles may be called on to assist the Police Department in public street-by-street notification.

II. Shelter

A. The Public Works Department may be called on to seal the shelters at the former St. Joseph's School and North Adams State College from the infiltration of radioactive dust by such actions as boarding broken windows, taping around unused leaky doors, sealing exterior ventialtion ducts, etc.

B. The Public Works will prepare, store, and erect traffic control signs at such points as the Police Department deems necessary.

1. Signs may be located at the locations listed in the Police Annex, but not restricted to only those locations.

C. Public Works vehicles may be required to assist Civil Defense or the Red Cross in transporting food or other necessities to the shelters.

D. Public Works will insure that solid waste is promptly disposed of at shelters.

III. Access Control

A. Signs shall be prepared, stored and erected for all access control points as follows:

1.

East	Route 2 entering North Adams
North	Route 8 entering North Adams
South	Route 8 entering North Adams
West	Route 2 entering North Adams Mass. Ave. at Protection Avenue

2. Signs shall say CLOSED AREA, RADIATION EMERGENCY.

3. Traffic will be divided from access control points using normal detour signs and directional arrows.

B. Public Works personnel and vehicles may assist the Police Department at the access control points.

IV. Evacuation

A. Signs shall be prepared, stored and erected indicating routes to reception centers. Locations of signs shall be determined by the Police Department and may include but not be restricted to the traffic control points listed in the Police Annex.

B. Public Works will assist in maintenance of reception centers and prompt solid waste disposal.

V. Protective Response

A. Public Works (Water Division) will upon order of Civil Defense or the Health Department shut down the Greylock Reservoir feed to the water system, thereby using only well water and covered storage for supply.

B. Public Works will recommend to the Mayor if a water use restriction is necessary.

C. Public Works shall insure that all routes to shelters, reception centers, etc. are passable and free from unnecessary hazards.

D. Public Works will coordinate removal of disabled vehicles from travel routes.

VI. Assistance

A. Public Works may call upon the assistance of State Department of Public Works in the preparation and erection of signs.

B. Public Works may call on the use of private trucks, snow plows, wreckers, etc. to insure that their responsibilities are carried out on a timely basis.

Appendix D

Board of Health

I. Shelter

A. The Board of Health will insure that proper Public Health standards are maintained in shelters.

II. Relocation

A. The Board of Health will insure the proper Public Health standards are maintained at the following facilities:

1. Reception Centers
2. Mass Feeding Facilities
3. Congregate Care Centers

III. Protective Actions

A. The Board of Health will advise and monitor the ingestion path recommendations of State Public Health.

1. Cows to feed on stored food only.
2. Vegetable and fruit kept off market.

B. The Board of Health will assist the Red Cross in dispensing radio protective drugs if so ordered by State Public Health.

Appendix E

School Department

I. Warning and Notification

A. If school is in session, the School Department will prepare to relocate students from the Middle School and the East School to the McCann School and retain or return to their homes all other students.

B. If school is not in session, the School Department will plan to open the Greylock School and McCann School for Reception Centers.

II. Shelter

A. If students are advised to remain in school beyond the normal school hours, the Principal of each school will prepare and implement staffing patterns,

B. School cafeterias will plan to prepare and present meals beyond those normally served using on-site resources.

C. Students will be returned home or evacuated upon advice of the Mayor or Civil Defense

III. Evacuation

A. Students and staff from the Middle School and East School will be evacuated by school bus to the McCann School.

B. Staff from the Middle School and East School will assist the staff at the McCann School in control of the evacuees at the McCann School.

C. Staff of the McCann School and Greylock School will assist the Red Cross and Civil Defense in registering evacuees.

Appendix F

Red Cross

I. The Red Cross pursuant to U.S. Public Law 4, 58th Congress, the Disaster Relief Act of 1970, Public Law 91-606 and the Memorandum of Understanding with the Massachusetts Civil Defense Agency is responsible for certain public welfare functions.

II. Warning

A. The Berkshire County Red Cross will mobilize its professional and volunteer staff.

III. Shelter

A. Red Cross will staff the shelters of the St. Joseph's School building and the North Adams State College assisted by Civil Defense and NASC staff to provide the following if necessary:

1. Reception and Registration
2. Temporary Housing
3. Feeding
4. Emergency Medical Care

IV. Evacuation

A. The Red Cross will staff the Reception Centers at the McCann School, Greylock School and Y.M.C.A. assisted by Civil Defense and the staff at the facilities to provide the following if necessary:

1. Reception and Registration
2. Temporary Housing
3. Feeding
4. Emergency Medical Care

V. Protective Action

A. Red Cross will assist the Board of Health in the dispensing of radio-protection drugs if recommended by the State Public Health.

VI. Return from Shelters or Evacuation

A. Red Cross will assist residents in the early return to homes.

1. Provision for physical needs

2. Provision for psychological needs

VII. Support

A. The Red Cross may request through Civil Defense the assistance of other private organizations; i.e., Salvation Army.

VIII. Action Guidelines

Upon receipt of the alert call, the Red Cross office will verify the call, and then follow these procedures:

NOTIFICATION - The Executive Secretary will call the Division representative, Assistant Secretary, Chapter Chairman, Disaster Chairman, and Chairman of Volunteers. The Assistant Secretary will report to the Red Cross office to act as a back-up for the Executive. The Chairman will call the various organizations responsible for volunteers to assist in their assignments. (See Attachment)

REGISTRATION - McCann Regional Vocational Technical School
Y.M.C.A.
Greylock School

MEDICAL CARE - A Red Cross nurse will be stationed at each Reception Center to administer emergency assistance. A doctor will be at each registration point.

FEEDING - In the McCann School and Greylock School, the school personnel will prepare the food, assisted by volunteers. Food will be delivered to the Y.M.C.A. by the Red Cross. All food purchased for these evacuations must be authorized by Red Cross personnel, and must have a disbursement order. If a prolonged stay (over 12 hours) is indicated, provisions will be made to move people out of the Reception Centers to less crowded and more suitable facilities. After registration, people will be encouraged to seek lodging at homes of friends and relatives outside the ten-mile area. The Red Cross may solicit the help of the Salvation Army or other private social service agencies.

MOTOR SERVICE - Although most of the evacuees will be arriving by car, and advised to bring mediciens, personal supplies, etc., Red Cross will have available a motor corp at each Reception Center for emergency requests.

COTS AND BLANKETS - In the event, it is necessary for the evacuees to be housed overnight, the Executive Secretary will notify the Division Representative and cots and blankets will be furnished through regular Red Cross channels. People may be moved to other care facilities if the registration centers become overcrowded.

SEQUENCE OF NOTIFICATION BY RED CROSS PERSONNEL

Chapter Chairman call Shelter Managers:	Name	Tel. No.
McCann Regional TV School		
Greylock School		
Y.M.C.A.		

Disaster Chairman Calls:	Name	Tel. No.
Registrars		
Salvation army		
Canteen		
Motor Service		

Chairman of Volunteers Calls:	Name	Tel. No.
Medical Service		
EMT		

Communications	Name	Tel. No.

NOTE: Names and telephone numbers to be reviewed on a yearly basis.

TOWN OF ROWE

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Rowe with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Rowe is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Rowe Fire (via NAWAS — see Section VI) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. The Rowe Yankee Nuclear Power Station is located in the Town of Rowe, Franklin County, Massachusetts, on the East bank of the Deerfield River, three quarters of a mile South of the Vermont-Massachusetts border. Coordinates of the reactor vapor container are 42°43'39" N. Latitude and 72°55'55" W. Longitude. The site consists of a total of

approximately 2,000 acres straddling the Deerfield River in the Towns of Rowe and Monroe, also in Franklin County.

2. The Town of Rowe is bordered on the North by the State of Vermont, on the West by the Town of Monroe, on the South by the Town of Charlemont, and on the East by the Town of Heath. The region is hilly and heavily wooded. Elevations range from 800 feet to 2,000 feet above mean sea level. There are large areas of merchantable timber, consisting of hardwoods and some conifers. The area is drained by the Deerfield River and its tributaries. The Town of Rowe, incorporated on February 9, 1785, was named in honor of John Rowe, a wealthy Boston merchant.

3. The population of the Town of Rowe is 277. The Town is a member of the Mohawk Trail Regional School District. Rowe maintains a local school system. School attendance of children to age 12 numbers 66.

   The principal highways serving the area are Cross State Routes #2 and 8A.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Rowe lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclearppower station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Rowe Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Rowe lie in Sectors "B", "C", "D", "E", "F", "G", "H", "J", "K", and "L". (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Rowe Basic Operations Plan as supplemented by this Plan. The Town Hall will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Rowe Fire of a "CODE YELLOW" message; either through Greenfield Fire (National Attack Warning System), via Tri-State Mutual Aid; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;

2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;

3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;
4. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;
5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,
6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Greenfield Fire over the Tri-State Mutual Aid System.

Back-up and validation messages will be received as follows:

1. State Police to Rowe Police
2. Franklin County Police to Rowe Police
3. Massachusetts Civil Defense to local Civil Defense

Red phones should be used to acknowledge initial alerts.

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Local Police and Fire will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department
Emergency Medical Coordinator Rowe Unitarian Camp
Board of Health
Whitingham and Charlemont Ambulance Service

The official notification call list appears as an Attachment.

2. Upon establishment of emergency operations at the Town Hall, the local Civil Defense Director or a designee will determine notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Rowe, to conduct door-to-door and loudhailer notification. Engine assignments and routes appear as Attachment 1 to this Annex.

2. The local police cruiser PA system will function as back-up to Fire Department vehicles for door-to-door notification.

3. Radio Stations WHAI, WHMP and WHYN, and Channels 3, 4 and 5 will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

4. Pelham Lake Park recreation area will be notified by personnel of the Police Department.

5. Notification of people using the Deerfield River for recreation purposes will be accomplished by the Police and Fire Departments.

6. Rowe Unitarian Camp will furnish transportation for their personnel.

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include the entire Town of Rowe, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in a southerly direction, it is possible that a recommendation might be made to evacuate only a small part of one Sector (e.g. Sector F). In such cases local officials may choose to direct evacuees in a northerly direction.

Shelter, access control, and evacuation actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

North	Leshures Road at the Vermont line; Potters Road at the Vermont line; Stone Hill Road at the Heath line;
East	Dell Road at the junction of Cyrus Stage Road; Davis Mine Road at the junction of Cyrus Stage Road;
South	Zoar Road at junction Steele Brook Road (Charlemont line);
West	Personnel of the Nuclear Power Station will block Monroe Hill Road at crest of hill.

IV. Evacuation

A. General

Evacuation involves notification to the public(Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation will be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Administration of K1/Potassium Iodide will be the responsibility of the Emergency Health Coordinator at the Town Hall.

6. Evacuation of residents will be by the following routes:

   a. Zoar Road South to Route #2, then East to Mohawk Regional School;

   b. Cyrus Stage Road East to Number Nine Road South to Route #2, then East to Mohawk Regional School;

   Alternate Routes to be used during severe weather:

   c. North on Leshures Road to VT Rte 100, West to Rte 8 thru Clarksburg into North Adams to the Greylock School;

   d. Rowe school officials will be responsible for the evacuation of students from Rowe Elementary School, if in session (90 students). Students will be transported by bus to Mohawk Regional School;

   e. Evacuation of Rowe Unitarian Camp is the responsibility of Camp personnel (90 campers).

ANNEX C PROTECTIVE RESPONSE — FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

All potable water for the residents of Rowe is drawn from covered wells.

Upon notification to the town by the State Department of Public Health or Department of Environmental Quality Engineering that any water source is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;

2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of: 1) dairy farms; 2) sources of stored feed; and 3) commercial and large produce farms appear as Attachment A to this Annex.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;

2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;

2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;

3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters;

4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;

2) Distributing dosimeters during an emergency;

3) Advising Fire, Police and other personnel of exposure guidelines for emergency workers;

4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Town Hall;

2) Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Town Hall, to pick up (1) high level and (1) low level dosimeter;

3) The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;

4) The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Rowe Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Rowe Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Rowe Yankee Nuclear Power Station the Rowe Civil Defense Director, or his designee, will contact Radio Stations WHAI in Greenfield and WMNB in North Adams and Channels 3 and 40 to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat — DO NOT GO TO THE PLANT — DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT — STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Rowe Nuclear Power Station in Rowe, Massachusetts. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Rowe Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2) Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Rowe Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in Buckland, and elsewhere outside of the Town of Rowe. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Rowe Yankee area.)

The Civil Defense Director will coordinate with the State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Whiting Farm and Charlemont Ambulance Service will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises shall be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Rowe Yankee area.

TOWN OF SAVOY

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Savoy with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Savoy is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Savoy Fire (via NAWAS — see Section VI below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Yankee Rowe is located in the Town of Rowe, Massachusetts, in Franklin County on the East shore of the Deerfield River. The Nuclear Power Station site coordinates approximate 40°43'39" N. latitude and 72°55'55" W. longitude.

2. The Town of Savoy is located in Berkshire County in Northwestern Massachusetts, bordered by Florida to the North; by Charlemont and Hawley on the East; by Plainfield on the Southeast; by Adams and Cheshire on the West; and by Windsor to the South.

   Of recent years, 3 firms reported to the Massachusetts Division of Employment Security - a retailer, a transportation firm and a camp.

   The Town of Savoy is a member of the Northern Berkshire Vocational Regional School District. Higher educational facilities in the area include: Berkshire Community College in Pittsfield, North Adams State College in North Adams and Williams College in Williamstown

   The principal highway is Route #116 running East and West and South along the East bank of the Westfield River.

3. The population of Savoy is approximately 500. The Savoy Elementary School has an enrollment of 80 students. The Hoosac Range extends through part of the Town of Savoy. The terrain in Savoy elevates from about 900 to 2500 feet above mean sea level. Over half the land area of Savoy is covered by Tannery Falls Park, part of Savoy Mountain State Forest, and part of Mohawk Trail State Park. The principal highways serving this general area are cross state routes #2 and #9. Western Massachusetts Electric Company serves Savoy. There is no public water supply in town. Springs and wells constitute the source of potable water.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Savoy lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts

plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;
2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;
3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,
4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;
2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;
3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,
4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Rowe Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Savoy lie in Sector "K" and "L". (Neither "I" nor "O" are used for sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Savoy Basic Operations Plan as supplemented by this Plan. The Fire Station will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Savoy Fire of a "CODE YELLOW" message; either through Berkshire County Mutual Fire Net (National Warning System), or via State Civil Defense Area IV

(Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve the Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;
4. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;
5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,
6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A — WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Berkshire County Mutual Aid over the Tri-State Mutual Aid System.

Back-up and validation messages will be received as follows:

1. State Police to Savoy Police
2. Berkshire County Police to Savoy Police
3. Massachusetts Civil Defense to local Civil Defense

Red phones and monitors should be used to acknowledge initial alerts.

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Local Fire will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department
Savoy State Forest

The official notification call list appears as an Attachment to this Annex.

2. Upon establishment of emergency operations at the Fire Station, the local Civil Defense Director or a designee will determine notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Savoy, to conduct a door-to-door and loud-hailer notification. Engine assignments and routes appear as Attachment 1 to this Annex.

2. Radio Station WMNB-WBRK and Channel 10 and 19 will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

3. Cross country skiers and others using the Savoy State Forest recreation area will be notified by personnel of the recreation area.

KEY OFFICIALS

Selectmen	William Sakowski	743-2433
	Ralph Sherman	743-0043
	Douglas Haskins	743-2133
Civil Defense Director Fire Chief	Robert Hermann	743-1374
Police Chief Highway Superintendent	Norman Bates	743-5283 743-9436 743-3846
Health - Selectmen		
School Committee (Savoy Elementary)		
	Robert Fraker	743-5596
	Kay Reeves	743-3409
Savoy State Forest		
	Dave Carlin	663-8469 617-727-3189

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include 15% of the Town of Savoy, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of 15% of the entire population in a westerly direction, it is possible that a recommendation might be made to evacuate only a small part of the Sector (e.g. Sector K). In such cases local officials may choose to direct evacuees in an easterly or westerly direction

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

East	Chapel Road Jct. Hawley Road; Scott Road at Hawley line;
West	Adams Road at Florida line; Centre Road Jct. Rte. 116.

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

   Brier Rd., Chapel Rd., Barnard Rd., Tannery Rd., and Adams Rd., to Route #116;

   Rte 116 West to Rte 8 North to McCann School, North Adams.

6. Evacuation of the Savoy State Forest is the responsibility of the recreation area's personnel and will be accomplished by private vehicles of those using the Area.

ANNEX C PROTECTIVE RESPONSE — FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

All available potable water in Savoy is drawn from private wells.

Upon notification to the town by the State Department of Public Health or Department of Environmental Quality Engineering that any water source is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

C-2

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;
2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters;
4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.
2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;

2) Distributing dosimeters during an emergency;

3) Advising Fire, Police and other personnel of exposure guidelines for emergency workers;

4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Fire Station;

2) Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Fire Station, to pick up (1) high level and (1) low level dosimeter;

3) The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;

4) The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontaminatinn stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Savoy Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Rowe Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Rowe Yankee Nuclear Power Station the Savoy Civil Defense Director, or his designee, will contact Radio Station WMNB and WHAI (WMNB in North Adams and WHAI in Greenfield) to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat — DO NOT GO TO THE PLANT — DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Rowe Yankee Nuclear Power Station in Rowe, Massachusetts. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT — STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Rowe Nuclear Power Station in Rowe, Massachusetts. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Savoy Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2) Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Rowe Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in North Adams, and elsewhere outside of the Town of Savoy. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Rowe Yankee area.)

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Kidder Ambulance Service will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Rowe Yankee area.

SECTION E-1 AREA OPERATIONS - VERMONT YANKEE

A. INTRODUCTION

This Section describes the site and environs of the Vermont Yankee Nuclear Power Station at Vernon, Vermont, and describes and summarizes operational concepts of the plan as they will be carried out in the event of a radiation emergency at Vermont Yankee.

B. APPLICABILITY

The provisions of this Section are primarily applicable to the designated evacuation and reception communities within and around the ten-mile "plume exposure" emergency planning zone which surrounds Vermont Yankee, and those local, State and Federal agencies, and private organizations with assigned radiation emergency tasks for the Vermont Yankee area. This Section has secondary applicability outside the ten-mile "plume exposure" emergency planning zone, but within the 50 mile "ingestion exposure" zone.

C. SCOPE

All operational concepts reflected in this Section are consistent with responsibilities set forth in Sections A and B (Basic Plan and Annexes) and with the local plans that make up the balance of Section E.

D. SITE DESCRIPTION, LAND USE, AND DEMOGRAPHY

Attachment E1-1 to this Section describes the Vermont Yankee Nuclear Power Station site and its environs, and the population and land use characteristics of areas surrounding the site. Site description, land use and population density estimates were extracted from Vermont Yankee's Final Safety Analysis Report to the NRC. Sector population estimates were prepared by the Vermont Department of Public Safety in July of 1979, and are based upon more recent data than the Vermont Yankee Final Safety Analysis Report.

E. EMERGENCY NOTIFICATION OF LOCAL OFFICIALS

In any situation requiring notification to states and localities, the Vermont Yankee Nuclear Power Station will alert Massachusetts communities via the Tri-State Mutual Aid System. Vermont Yankee will also alert the Massachusetts State Police in Boston via microwave. The Massachusetts State Police will, in turn, provide redundant alerts via NAWAS to the Greenfield warning point, and to Civil Defense in

Framingham and in Belchertown.

Localities will receive additional redundant alerts from Massachusetts Civil Defense in Belchertown, and from Franklin County Police.

In conformity with State practice, alert messages will state that the Nuclear Power Station has a CODE YELLOW. Initial local response to receipt of a CODE YELLOW message should be those specified in the local plan. Determination of what further actions are required will be made by Department of Public Health officials, and transmitted to localities by Civil Defense via NAWAS.

Attachment E1-2 is a diagram of emergency notification flow.

F. EVACUATION ROUTES

The Department of Public Health may determine that, based upon power plant condition or actual measured radiation releases, evacuation of some areas is necessary.

It is possible that only a very limited area will require evacuation, and that this evacuation be quickly carried out in a "crosswind" fashion, to avoid an expected gaseous plume traveling with the wind. (To avoid a southbound plume traveling on a wind from the North, for instance, people in the path of the plume would be advised to move either East or West.)

In most cases, however, more time would be available to effect evacuation, and the Department of Public Health would be advising evacuation of larger areas to prevent any unnecessary increase in radiation exposure to the public. For such eventualities, each community in the "plume exposure" emergency planning zone has designated evacuation routes which, generally, are designed to move people quickly away from the power station, and to the Greenfield Community College, which is the principal reception center for communities in the Vermont Yankee area. (People inside the ten-mile zone in Warwick are to be evacuated to the Warwick Center School.)

Attachment E1-3 consists of summary sheets of key information from area local plans.

Attachment E1-4 is a summary of designated evacuation routes.

G. TRAFFIC CONTROL

Traffic control will be accomplished by local police, with the support of local fire, highway and other resources, in accordance with local plans. Traffic control responsibilities will include the responsibility to control access to affected areas to prevent radiation exposure or reexposure to the public.

Pre-designated access control points appear in each local plan, and are summarized in Attachment E1-5.

State Police, assisted by State Department of Public Works personnel, are available to assist with local traffic control and law enforcement, to man key traffic control points on State highways, and to maintain liaison with Vermont and New Hampshire State Police at key traffic control points at the State borders. Attachment E1-6 summarizes State Police responsibilities and procedures.

H. EMERGENCY PUBLIC INFORMATION

Emergency public information, following initial notification to the public by local police, fire and other officials, will be available over a variety of broadcast media (See Section A-4, Public Information). Attachment E1-7 summarizes recommended frequencies and channels for receipt of such information.

2.2 SITE DESCRIPTION

2.2.1 Location and Area

The site is located in the town of Vernon, Vermont, in Windham County on the west shore of the Connecticut River immediately upstream of the Vernon Hydroelectric Station. The site contains about 125 acres owned by the Vermont Yankee Nuclear Power Corporation and a narrow strip of land between the Connecticut River and the east boundary of the Vermont Yankee property to which Vermont Yankee has perpetual rights and easements from the New England Power Company. This land is bounded on the north, south, and west by privately owned land and on the east by the Connecticut River. Site coordinates are approximately 42° 47' north latitude and 72° 31' west longitude. Figures 2.2-1 through 2.2-3 locate the site. The site plot plan is shown on Figure 2.2-4 and an aerial view of the site is shown on Figure 2.2-5.

2.2.2 Population

The population density for 1970 is estimated to be about 95 people per square mile within a five-mile radius of the site. The population density in this area is estimated to be 115 per square mile in 1980 and 160 per square mile in 2000. Table 2.2-1 shows the projected distribution of population in the area within a 25-mile radius of the site.

Figures 2.2-6 through 2.2-8 show projected population in 22-1/2° sectors around the site to a distance of 5 miles. The greatest concentration of population in these sectors is at the city of Brattleboro. Table 2.2-2 shows population growth estimates for urban centers within 25 miles of the site. The nearest town with a population of 25,000 or more is Northampton, Massachusetts, (1960 population 30,058) at about 30 miles to the south. Accordingly, 30 miles is the population center distance.

The information on population projections is based on a 1964-65 study prepared for the Corps of Engineers, New England Division.

2.2.3 Land Use

About 80% of the land within a 25-mile radius of the site is undeveloped. Most of the developed land is used for agriculture and dairying, with homes scattered or grouped in small villages. Table 2.2-3 shows the distribution of land use within 25 miles of the site.

The area within 10 miles of the site has only one urban area, the city of Brattleboro (population 9,315), which is located about 5 miles up-river. The remainder of this area is rural and contains several small villages with populations between 1,000 and 3,000. The area between 10 and 25 miles has only three urban centers with 1960 populations between 10,161 and 17,562.

The closest site boundary is 910 feet west of the reactor building. The nearest house, 1300 feet away from the reactor building, is one of several along improved Town Highway No. 4 just west of the site. The Vernon Elementary School, which has a pupil enrollment of about 120, is on the other side of the road about 1500 feet from the reactor building.

The land within a 1-mile radius of the site is occupied by rural homes and is used for dairy feed products and pasture, except for a residential area of about 75 houses located about 0.8 mile across the Connecticut River. About 30% of this area consists of the river and undeveloped land adjacent to it.

2.2.4 Restricted Area, Exclusion Area, and Low Population Zone

As defined in 10CFR20 and 10CFR100, the terms "restricted area," "exclusion area," and "low population zone" each refer to a specific area about the station site as a result of applying different radiological health constraints. Restricted area refers to the plant area to which access is under sufficient control by the licensee for the purpose of radiological protection of individuals. The exclusion area represents the site area surrounding the plant which the licensee owns and/or controls activities within - however, not necessarily for the purpose of radiation protection. This area is such that during an accident condition of radiological significance the licensee will possess the capability for exercising immediate and direct control over activities for the purpose of radiological protection. Finally, the low population zone is delineated by an area about the plant which includes residential, farming, industrial, etc., activities to some extent, but is not so large or populated to prevent orderly, effective radiological control or evacuation in the event of an accident of an environmentally significant nature.

Thus, these areas and zones are delineated for different purposes and vary in the degree of control that the licensee can exercise from a radiation protection standpoint. The following discussion presents an analysis of each area in relation to the plant and its operations.

A. RESTRICTED AREA

The restricted area for the Vermont Yankee site consists of a significant portion of the 125-acre property area owned by the Vermont Yankee Nuclear Power Corp. (Vermont Yankee) plus a portion of the Connecticut River water area. The fenced boundaries of this area are delineated on Figure 2.2-4. The fence is a 6-foot high security fence topped by 1-foot of barbed wire. The minimum distance from the reactor building to the boundary of the restricted area is 910 feet in a westerly direction. In addition to the fence, signs are posted clearly informing an individual that the area is private property and unauthorized entry is strictly prohibited.

Access to and activities within this restricted area are under control of Vermont Yankee. Activities are those related to normal utility operations only. Access to the area is from the Governor Hunt Road through the main gate, which is occupied at all times by the plant security force. Thus, the complete fence and guard location combine to afford complete access and activity control to Vermont Yankee for the site.

As mentioned, in addition to the land area Vermont Yankee includes the river water area between the northern and southern boundary fences as part of the restricted area. Thus, the overall restricted area for the plant is as shown in Figure 2.2-5. The low exposure rates involved and the zero or near zero occupancy factor applicable to individuals in the river area combine to allow Vermont Yankee to include this region in the restricted area.

To ensure compliance with the constraints applicable to the restricted area as described, area thermoluminescant dosimeter stations are provided at strategic locations throughout the site. These measurements of integrated gamma exposure are made to alert Vermont Yankee to any condition that produces a greater exposure than necessary.

Thus, this restricted area is delineated and will be maintained in the interest of the public and the plant personnel.

B. EXCLUSION AREA

The exclusion area for the Vermont Yankee site is also shown in Figure 2.2-5 and includes the entire 125-acre land area owned by Vermont Yankee surrounding the plant and a narrow strip of land between the Connecticut River and the east boundary of the plant property to which Vermont Yankee has perpetual rights and easements from New England Power Company. In addition, the Connecticut River water area between Vernon Dam and the northern Vermont Yankee property line is included in the exclusion area since it will be a controlled access region during an accident condition. The means of controlling access on the river and evacuating it if necessary are being worked out with the Vermont and New Hampshire State Police Agencies. One or both of these agencies will perform this duty for Vermont Yankee. The minimum distance from the reactor building to the boundary of the exclusion zone is 910 feet in a westerly direction.

The activities within the exclusion area are those pertaining to normal plant operations only. Passage on the Connecticut River to Vernon Pond is possible during normal plant operation; however, the area is not well established for recreational or sport-fishing use. No part of the exclusion area owned by the plant will be sold or leased and no structure will be located within it except those owned by Vermont Yankee Nuclear Power Corporation or related companies and used in conjunction with normal utility functions. No residences will be permitted on the site.

Control over activities within, and access to, the exclusion area assume an entirely different form immediately following an incident condition that produces, or threatens to produce, a radiological hazard to the site. Subsection 13.6.1, Emergency Plan, describes the types and level of emergency action that will be initiated at the plant in order to minimize radiation exposure following an accidental release. The only addition to that discussion is that, as previously mentioned, evacuation and access control will be placed into effect for the Connecticut River area included in the exclusion zone. Section 14 shows that the guideline doses expressed in 10CFR100 are met with a margin of orders of magnitude with this exclusion area.

C. LOW POPULATION ZONE

The low pouplation zone for the Vermont Yankee Nuclear Power Station is an area included within a 5-mile radius of the site. It is outlined on Figure 2.2-2. The 1970 population density for this zone is shown in Figure 2.2-6. This land area was selected because it meets the requirements of 10CFR100 with respect to radiation dose resulting from a design basis accident (see section 14) and orderly evacuation capability if it is required. The method and responsibility for action taken within the low population zone during an accident condition are delineated in Subsection 13.6.1.

D. GENERAL

It is the belief of the licensee that the proposed boundaries for the restricted area, exclusion area, and low population zone, as described, are fully consistent with the principles involved in ensuring the health and safety of the public together with the plant personnel. In addition, this delineation yields an effective arrangement with regard to efficient plant operation.

The complete perimeter fence described for the restricted area together with the fact that the only plant access point is maintained by the security force afford the licensee with complete, continuous access and activity control for every component of the facility. In addition, fencing is provided for the 115-kV and 345-kV switchyards.

Thus, the responsibilities of the licensee are met from both radiological protection and plant security standpoints.

2.2.5 Conclusions

About 80% of the land within 25 miles of the site is undeveloped. The 1960 census shows that less than 500 people live within 1 mile of the site and about 6400 live within 5 miles. The 1960 data also show that population density in the vicinity is light, about 82 persons per square mile within a 5-mile radius and 70 persons per square mile within a 25-mile radius. Population projections to 1980 predict about a 40% increase above the 1960 figures. However, the average population density is expected to remain low. The location of the site provides good local isolation with light population density in the surrounding area.

Predicted growth of the surrounding urban centers is mixed. Most significant is the fact that the population of Brattleboro, the closest urban center, is not expected to increase substantially.

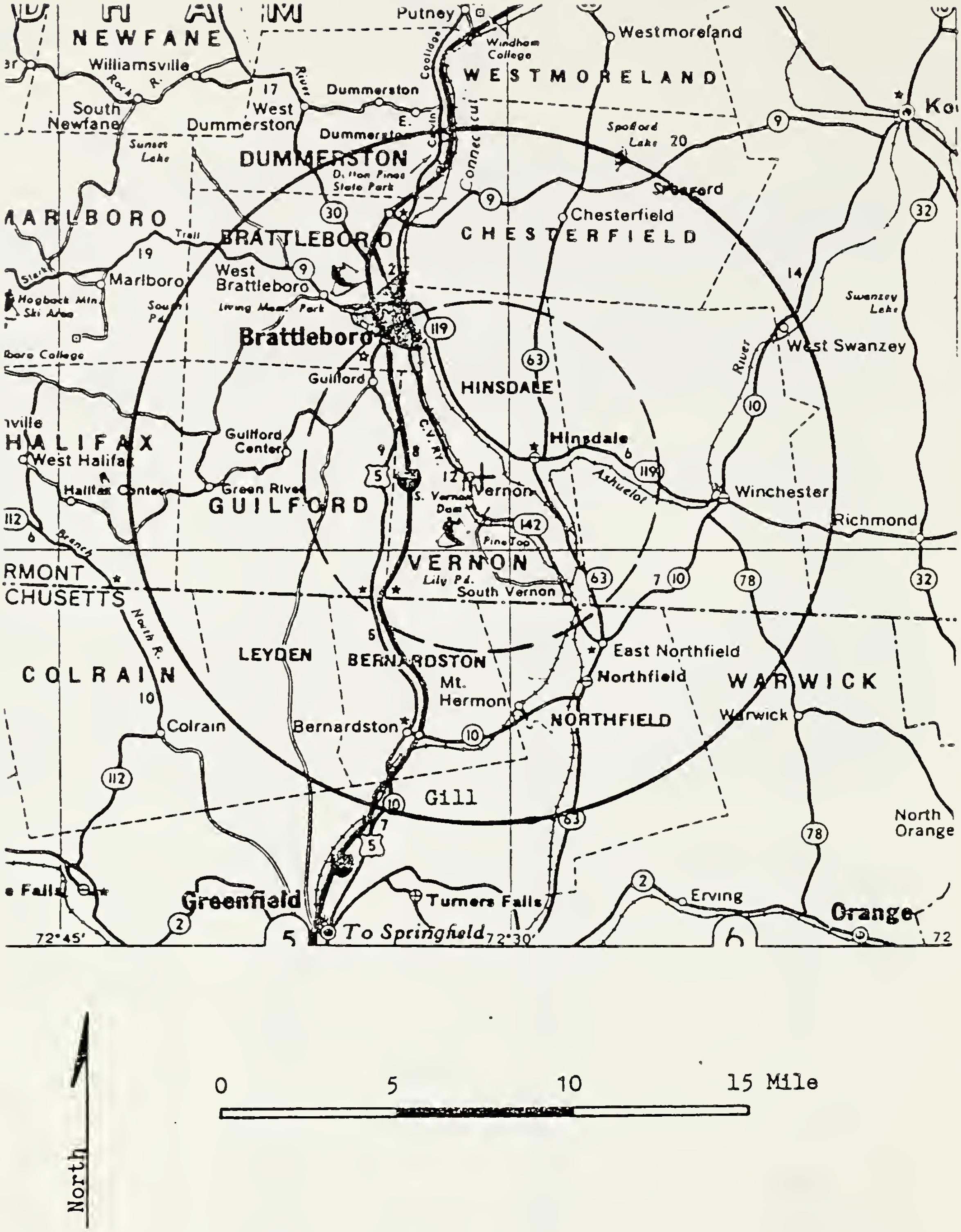
In summary, the site is suitable for the facility as designed from population distribution and land usage considerations.

VYNPS

TABLE 2.2.1

POPULATION DENSITY

Distance from Reactor Building Miles	Population	Land Area Square Mile	Average Density Person Per Square Mile
	1970		
0 - 0.5	110	0.79	141
0.5 - 1	450	2.36	189
1 - 2	1,300	9.42	138
2 - 3	1,150	15.71	72
3 - 4	900	21.80	42
4 - 5	3,500	28.47	136
0 - 5	7,400	78.54	95
5 - 10	21,800	235.6	91
10 - 15	39,900	392.7	102
15 - 20	59,200	549.8	108
20 - 25	31,200	706.9	44
0 - 25	159,500	1,963.5	81
	1980		
0 - 0.5	135	0.79	171
0.5 - 1	540	2.36	228
1 - 2	1,575	9.42	167
2 - 3	1,375	15.71	87
3 - 4	1,100	21.80	50
4 - 5	4,200	28.47	164
0 - 5	9,000	78.54	115
5 - 10	25,500	235.6	110
10 - 15	48,100	392.7	124
15 - 20	71,500	549.8	131
20 - 25	37,700	706.9	53
0 - 25	191,800	1,963.5	98
	2000		
0 - 0.5	188	0.79	238
0.5 - 1	750	2.36	316
1 - 2	2,185	9.42	232
2 - 3	1,900	15.71	121
3 - 4	1,526	21.80	70
4 - 5	6,491	28.47	228
0 - 5	12,566	78.54	160
5 - 10	35,811	235.6	152
10 - 15	67,544	392.7	172
15 - 20	99,514	549.8	181
20 - 25	52,311	706.9	74
0 - 25	269,000	1,963.5	137


NEWFANE
Williamsville
South Newfane
Sunset Lake
Putney
Windham College
Dummerston
West Dummerston
E. Dummerston
DUMMERSTON
Dutton Pines State Park
Westmoreland
WESTMORELAND
Spofford Lake
Spofford
Chesterfield
CHESTERFIELD
MARLBORO
Marlboro
Hogback Mtn. Ski Area
BRATTLEBORO
West Brattleboro
Living Mem. Park
Brattleboro
Guilford
Guilford Center
HINSDALE
Hinsdale
Ashuelot
West Swanzey
Swanzey Lake
Winchester
Richmond
HALIFAX
West Halifax
Halifax Center
Green River
GUILFORD
Vernon
S. Vernon Dam
Pine Top
VERNON
Lily Pd.
South Vernon
VERMONT
MASSACHUSETTS
North R.
COLRAIN
Colrain
LEYDEN
BERNARDSTON
Bernardston
Mt. Hermon
East Northfield
Northfield
NORTHFIELD
WARWICK
Warwick
North Orange
Gill
Greenfield
Turners Falls
Erving
Orange
To Springfield
72°45'
72°30'
72
Connecticut
River
C.V. RY.
North
0
5
10
15 Mile

VERMONT YANKEE
NUCLEAR POWER STATION
FINAL SAFETY ANALYSIS REPORT

Location Map—10-Mile Radius
FIGURE 2.2-2

TABLE 2.2.2

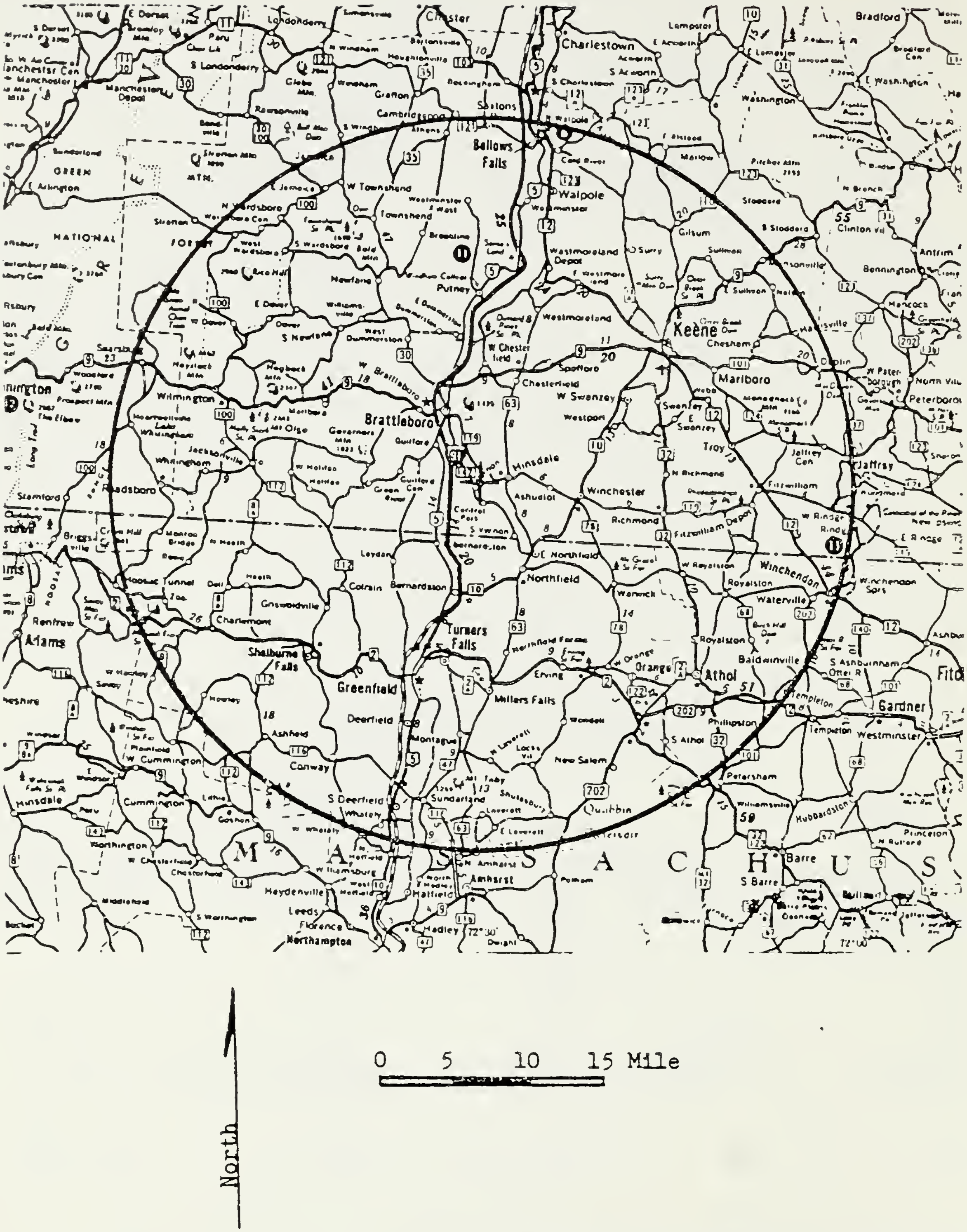
URBAN CENTERS WITHIN 25 MILES OF SITE

City	Distance From Site - Miles	Population by Years 1940	1950	1960	1970	1980	2000
Brattleboro, Vt.	5	9,622	9,606	9,315	9,500	10,000	12,000
Greenfield, Mass.	14	------	15,075	14,389	15,000	16,000	19,000
Keene, N. H.	16	13,832	15,638	17,562	19,000	21,800	26,000
Athol, Mass.	20	------	9,708	10,161	10,600	11,100	13,000

TABLE 2.2.3

TABLE OF LAND USE – SQUARE MILES

Land Use	0 – 10 Miles	Distance from Site 10 – 25 Miles	0 – 25 Miles
Residential	30.2	79.2	109.4
Commercial and Industrial	1.3	7.7	9.0
Agricultural	25.9	143.8	169.7
Road	6.0	21.6	27.6
Public	7.2	78.3	85.5
Undeveloped	243.4	1,318.4	1,561.8
TOTAL	314.0	1,649.0	1,963.0


Londonderry
Chester
Charlestown
Bradford
S Londonderry
Manchester Depot
Grafton
Cambridgeport
Saxtons
Bellows Falls
Walpole
Washington
GREEN
MTN.
NATIONAL
FOREST
Arlington
W Townshend
Townshend
Jamaica
Newfane
Putney
Westmoreland
Surry
Gilsum
Stoddard
Clinton vil
Antrim
Bennington
Hancock
Keene
Chesham
Harrisville
Dublin
Marlboro
Spofford
Chesterfield
W Swanzey
Swanzey
Troy
Jaffrey
Peterborough
Searsburg
Wilmington
Brattleboro
Guilford
Hinsdale
Winchester
Richmond
Fitzwilliam
Rindge
Readsboro
Jacksonville
Whitingham
Stamford
Green Con
Ashuelot
Northfield
Royalston
Winchendon
Colrain
Leyden
Bernardston
Heath
Griswoldville
Charlemont
Warwick
Waterville
Baldwinville
Turners Falls
Shelburne Falls
Greenfield
Deerfield
Montague
Millers Falls
Erving
Orange
Athol
Templeton
Gardner
Westminster
Fitchburg
Adams
Renfrew
Ashfield
Conway
Cummington
Plainfield
S Deerfield
Whately
Sunderland
Leverett
Shutesbury
New Salem
Petersham
Hubbardston
Princeton
Barre
S Barre
Amherst
Hatfield
Hadley
Northampton
Florence
Leeds
Haydenville
Williamsburg
Goshen
Worthington
MASSACHUSETTS
72°30'
72°00'
0 5 10 15 Mile
North

VERMONT YANKEE
NUCLEAR POWER STATION
FINAL SAFETY ANALYSIS REPORT

Location Map—25-Mile Radius
FIGURE 2.2-3

VERMONT YANKEE INCIDENT

POPULATION BY SECTOR
(1980 Estimate)

FIVE MILE ZONE

SECTOR	VERMONT	NEW HAMPSHIRE	MASSACHUSETTS	TOTALS
N 5	0	400	0	400
NNE5	0	100	0	100
NE 5	0	200	0	200
ENE5	0	1,300	0	1,300
E 5	0	1,300	0	1,300
ESE5	10	90	0	100
SE 5	225	225	50	500
SSE5	185	0	65	250
S 5	270	0	30	300
SSW5	95	0	5	100
SW 5	150	0	50	200
WSW5	100	0	0	100
W 5	300	0	0	300
WNW5	300	0	0	300
NW 5	600	0	0	600
NNW5	2,800	200	0	3,000
TOTAL	5,035	3,815	200	9,050

DPS PLANNING 7-6-79

VERMONT YANKEE INCIDENT

POPULATION BY SECTOR
(1980 Estimate)

TEN MILE ZONE

SECTOR	VERMONT	NEW HAMPSHIRE	MASSACHUSETTS	TOTALS
N 10	100	700	0	800
NNE10	0	600	0	600
NE 10	0	100	0	100
ENE10	0	500	0	500
E 10	0	2,050	0	2,050
ESE10	0	415	35	450
SE 10	0	80	1,970	2,050
SSE10	0	0	2,000	2,000
S 10	0	0	700	700
SSW10	0	0	2,050	2,050
SW 10	5	0	395	400
WSW10	105	0	95	200
W 10	250	0	0	250
WNW10	300	0	0	300
NW 10	3,050	0	0	3,050
NNW10	9,910	90	0	10,000
TOTALS	13,720	4,535	7,245	25,500

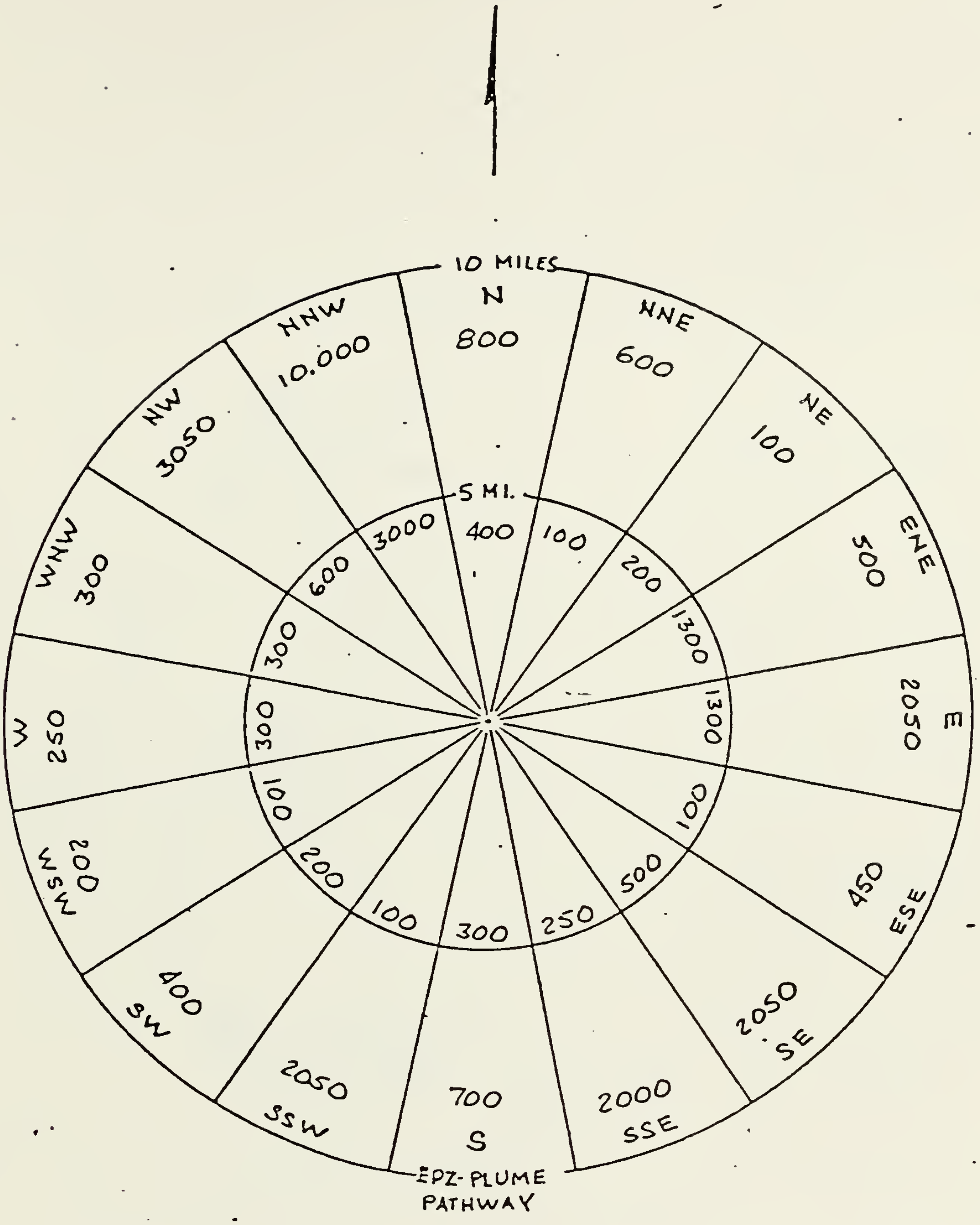
CUMULATIVE TOTALS

FIVE AND TEN MILE ZONES

5 Mile	5,035	3,815	200	9,050
10 Mile	13,720	4,535	7,245	25,500
TOTALS	18,755	8,350	7,445	34,550

1980 SECTOR POPULATION ESTIMATES

PLUME PATH OVERLAY


10 MILES
N
800
NNE
600
NE
100
ENE
500
E
2050
ESE
450
SE
2050
SSE
2000
S
700
SSW
2050
SW
400
WSW
200
W
250
WNW
300
NW
3050
NNW
10.000
5 MI.
400
100
200
1300
1300
100
500
250
300
100
200
100
300
300
600
3000
EPZ- PLUME
PATHWAY

POPULATION WITHIN FIVE MILES OF VY	9,050
POPULATION BETWEEN FIVE AND TEN MILES OF VY	25,500
TOTAL POPULATION WITHIN TEN MILES OF VY	34,550

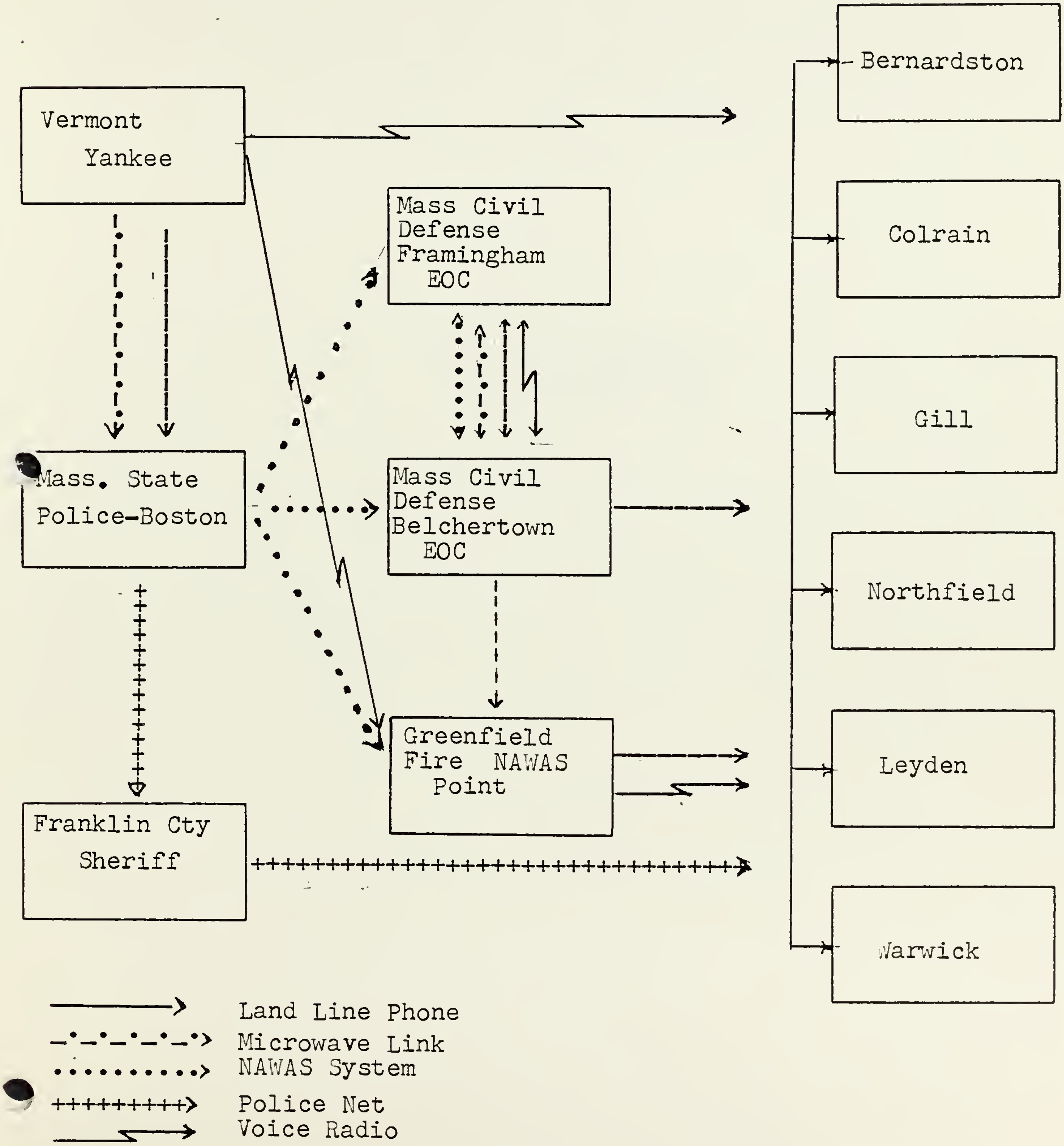
SCALE = 1:250,000
1" = 4 STATUTE MILES
SECTOR POPULATION DATA - PROJECTION TO YEAR 1980

EPZ-PLUME
VERMONT YANKEE, VERNON, VT.
DPS PLANNING DIV. 7-79

Attachment E.1-2
Page 1 of 1

EMERGENCY NOTIFICATION FLOW

VERMONT YANKEE NPS



Vermont Yankee
Mass. State Police-Boston
Franklin Cty Sheriff
Mass Civil Defense Framingham EOC
Mass Civil Defense Belchertown EOC
Greenfield Fire NAWAS Point
Bernardston
Colrain
Gill
Northfield
Leyden
Warwick
Land Line Phone
Microwave Link
NAWAS System
Police Net
Voice Radio

LOCAL PLANS SUMMARIES
Vermont Yankee Area

COMMUNITY Bernardston POPULATION 1,800

MAJOR MISSION Evacuation

SECTORS INVOLVED J, K, & L

EVACUATION/RECEPTION PLAN

Town of Bernardston will evacuate residents to Greenfield Community College in Greenfield.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Greenfield Community College

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Route 10(W) to Route I91(S)

Route 5(S) to Route I91(S)

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY 1,800

COMMUNITY Colrain POPULATION 1,500

MAJOR MISSION Evacuation

SECTORS INVOLVED L & M

EVACUATION/RECEPTION PLAN

Town of Colrain will evaucate residents within a ten-mile radius of Vermont Yankee to the Town of Greenfield.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Greenfield Community College

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Local roads

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY 100

COMMUNITY Gill POPULATION 2,000

MAJOR MISSION Evacuation

SECTORS INVOLVED J & K

EVACUATION/RECEPTION PLAN

Town of Gill will evacuate residents within a ten-mile radius of Vermont Yankee to the Town of Greenfield.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Greenfield Community College

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Route 2(W) to Route I91(S)

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY n/a

COMMUNITY Greenfield POPULATION 18,000

MAJOR MISSION Evacuation/Reception

SECTORS INVOLVED Evacuation J & K; Reception G, H, J, K, L, M

EVACUATION/RECEPTION PLAN

Town of Greenfield will evacuate residents within a ten-mile radius of Vermont Yankee to Greenfield Community College.

Town of Greenfield will receive evacuees from the following communities: Bernardston, Colrain, Gill, Leyden and Northfield.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Greenfield Community College

Backup facilities: Greenfield High School, Junior High School, & Four Corners School

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Local roads

DESGINATED PUBLIC SHELTER CAPABILITY 1,800 (backup facilities)

MUTUAL AID PUBLIC SHELTER CAPABILITY n/a

COMMUNITY Leyden POPULATION 520

MAJOR MISSION Evacuation

SECTORS INVOLVED L & K

EVACUATION/RECEPTION PLAN

Town of Leyden will evacuate residents to Town of Greenfield.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Greenfield Community College

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Local roads

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY 520

COMMUNITY Northfield POPULATION 2,500

MAJOR MISSION Evacuation

SECTORS INVOLVED G, H & J

EVACUATION/RECEPTION PLAN

Town of Northfield will evacuate residents to the Town of Greenfield.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Greenfield Community College

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Route 10(W) to Route I91(S)
Route 63(S) to Route 2(W)

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY 2,500

COMMUNITY Warwick POPULATION 500

MAJOR MISSION Evacuation/Reception

SECTORS INVOLVED F & G

EVACUATION/RECEPTION PLAN

Town of Warwick will evacuate residents within a ten-mile radius of Vermont Yankee to Warwick Center School.

RECEPTION FACILITY (Reception Facility will provide for Registration, Radiological Monitoring, Decontamination and Public Shelter accommodations if desired by evacuees.)

Warwick Center School

MAJOR ROUTES FROM EVACUATION AREA TO RECEPTION FACILITY

Local roads

DESGINATED PUBLIC SHELTER CAPABILITY n/a

MUTUAL AID PUBLIC SHELTER CAPABILITY n/a

EVACUATION ROUTES FOR INCIDENT AT VERMONT YANKEE

Town/City	Evacuation Route(s)
Warwick	East/South over roads in affected area to Warwick Center School
Northfield	Rte 10 West to Rte 91, South on Rte 91 to Exit 26 (Greenfield Rotary)
Northfield	Rte 63 South to Rte 2, West on Rte 2 to Greenfield
Gill	Main Road & West Gill Road South to Rte 2, then West on Rte 2 to Rte 91 South to Greenfield Community College
Gill	Barney Hale Road South to Rte 2, then West on Rte 2 to Rte 91 South to Greenfield Community College
Greenfield	South on West Leyden Road to Nash's Mill Road to Colrain Road to College Drive
Bernardston	Rte 10 West to Rte 91, South on Rte 91 to Exit 26 (Greenfield Rotary)
Bernardston	Rte 5 South to Rte 91 South to Exit 26 (Greenfield Rotary)
Leyden	Greenfield Road South to Leyden Road in Greenfield to Nash's Mill Road to Colrain Road to College Drive
Colrain	West Leyden Road to Shelburne Line Road to Greenfield Road in Shelburne to Colrain Road in Greenfield to College Drive

ACCESS CONTROL POINTS FOR INCIDENT AT VERMONT YANKEE

Sector/Direction	Town	Location
F/ESE	Warwick	Mayo 's Four Corners and at Richmond, N.H. line
G/SE	Warwick	Jct. Athol Road & Tully Brook Road
G/SE	Warwick	Town Farm Road at Jct. Hastings Heights Road & Gale Road
G/SE	Warwick	Rte 78 at Orange Line
G/SE	Warwick	Wendell Road at Jct. Quarry Road
G/SE	Northfield	Warwick Road at Warwick Line
H/SSE	Northfield	Gulf Road at Erving Line
H/SSE	Northfield	Rte. 63 at Erving Line
J/S	Northfield	Pine Meadow Road at Erving Line
J/S	Northfield	Jct. Rte 10 & Mt. Herman Road at Gill/Bernardston Lines
J/S	Gill	Boyle Road at Bernardston Line
J/S	Gill	Hoeshop Road at Bernardston Line
J/S	Gill	Doyle Road at Bernardston Line
J/S	Gill	West Gill Road at Bernardston Line
H/SE	Gill	North Cross Road at jct. of Main Road

ACCESS CONTROL POINTS FOR INCIDENT AT VERMONT YANKEE

Sector/Direction	Town	Location
L/SW	Bernardston	Rte 5 at Guilford, VT Line
K/SSW	Bernardston	Rte 5 at Greenfield Line
J/S	Bernardston	Rte 10 at Gill Line
L/SW	Leyden	Brattleboro Road at Jct. Keats Brook Road
L/SW	Leyden	West Leyden Road at Green River
K/SSW	Leyden	Greenfield Road at Greenfield Line
L/SW	Colrain	West Leyden Road at Jct. Shelburne Line Road
K/SSW	Colrain	Green River Road at Greenfield Line
J/S	Greenfield	Rte 2 at Gill Line
K/SSW	Greenfield	Rte 2 at Shelburne Line
K/SSW	Greenfield	Rte 5/10 at Bernardston Line
K/SSW	Greenfield	Rte 5/10 at Deerfield Line

EMERGENCY RESPONSE TO NUCLEAR INCIDENTS

TRAFFIC AND SECURITY PLAN
FOR
VERMONT YANKEE NUCLEAR POWER STATION
AND
YANKEE ROWE NUCLEAR POWER STATION

Massachusetts State Police
Troop "B" Headquarters
Northampton

COORDINATION

In the event of a radiation emergency at the Vermont Yankee Nuclear Power Station (Vernon, Vermont) or the Yankee Rowe Nuclear Power Station (Rowe, Massachusetts) Troop "B" of the Massachusetts State Police will assist in coordinating emergency measures with the following agencies to facilitate evacuation and security of the affected areas:

1. Vermont State Police, Montpelier
2. New Hampshire State Police, Concord
3. Massachusetts Civil Defense Agency, Area IV, Belchertown
   (Robert Boulay -- (413) 323-6306, - 5055)
4. Massachusetts Department of Public Works, Northampton
   (413) 584-1611, extension 45
5. Police Chiefs -- Vernon NPS Towns:
   - Bernardston
   - Colrain
   - Gill
   - Greenfield
   - Leyden
   - Northfield
   - Warwick
6. Police Chiefs -- Rowe NPS Towns:
   - Buckland
   - Charlemont
   - Clarksburg
   - Colrain
   - Florida
   - Hawley
   - Heath
   - Monroe
   - North Adams
   - Rowe
   - Savoy

RADIATION EXPOSURE CONTROL

At no time will an officer be subjected to overexposure to radiation. High and low level dosimeters, which will measure radiation exposure, will be stored at Shelburne Falls and Northampton barracks, which accept responsibility for maintaining this equipment and periodically recharging it. Northampton and Shelburne Falls will make this equipment available as necessary to DPW engineers working in the area.

Field commanders will keep detailed records of the time that each officer enters and leaves a contaminated area so that they may be properly relieved. Massachusetts Department of Public Health experts will constantly monitor the degree of radiation exposure, and keep State Police advised as to the safe amount of time an officer may stay in an area. As additional officers arrive from outlying Troops, first on scene officers will be relieved.

SECURITY

When evacuation of the affected communities has been completed, field commanders will break their officers into teams to report back to each of the communities. Upon arrival, the officer in charge of the detail will report to the Chief of Police to offer assistance in patrolling the town to guard against looting and deter sightseeing. On the roving patrols a local officer will accompany a State Police Officer to assure the area is completely covered. Fixed posts will be set up at practical locations to keep unauthorized persons out of the area.

COMMUNICATION

One officer with a cruiser will be assigned to meet a radio equipped Department of Public Works vehicle to coordinate radio communications between State Police and the Department of Public Works. Requests for road barricades, road lighting, signs, etc., will be relayed through this channel, as their resources will be available on an on call basis. A DPW engineer will be assigned to Troop "B" Headquarters for liaison.

NUCLEAR INCIDENT ADVISORY TEAMS

The Department of Public Health's Nuclear Incident Advisory Teams (NIAT) will be in the area affected during the entire period of the incident. NIAT personnel will carry identification, satisfy yourself that they are legitimate, and let them carry on their work. Be cooperative.

CRUISER ASSIGNMENTS

Vermont Yankee Emergency

Route 63 and Mass./N.H. State lines, meet N.H. cruiser to coordinate communications
Route 91 and Mass./Vt. State lines, meet Vermont cruiser to coordinate communications
Route 5 and Mass./Vt. State lines, meet Vermont cruiser to coordinate communications
Route 91 North at Deerfield exit, to close Route 91 to Northbound traffic

Yankee Rowe Emergency

Route 8A and Mass./Vt. State lines to coordinate communications

RADIO/TV STATIONS FOR COMMUNITIES IN VERMONT YANKEE AREA

City/Town	Radio/TV Stations
Bernardston	WHAI(1240 AM)
Colrain	WHAI(1240 AM) WHYN(560 AM/93.1 FM) Channel 3 Channel 22 Channel 40
Gill	WHAI(1240 AM) Channel 22
Greenfield	WHAI(1240 AM)
Leyden	WHAI(1240 AM) Channel 22
Northfield	WHAI(1240 AM)
Warwick	WCAT(1390 AM)

TOWN OF BERNARDSTON

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Bernardston with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Bernardston is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Bernardston Fire (via NAWAS — see Section VI) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Vermont Yankee is located in the Town of Vernon, Vermont, in Windham County on the West shore of the Connecticut River immediately upstream of the Vernon Hydroelectric

Station. The site contains about 125 acres owned by the Vermont Nuclear Power Corporation, and a narrow strip of land between the Connecticut River and the East boundary of the Vermont Yankee property to which Vermont Yankee has perpetual rights and easements from the New England Power Company. The land is bounded on the North, South, and West by privately-owned land, and on the East by the Connecticut River. Site coordinates are approximately 42°47' north latitude and 72°31' west longitude.

2. The Town of Bernardston, the center of which is approximately seven (7) miles SSW of the Vermont Yankee NPS, could be affected by a major accident at the Vermont Yankee NPS. Further, major accidents at either the Yankee Rowe NPS (approximately 20 miles west of Bernardston) or at the proposed NPS at Montague could result in recommendations that protective actions be taken in Bernardston with respect to foodstuffs, especially dairy cattle and milk.

   Bernardston is situated on the Northern border of Massachusetts. It is due South of the Towns of Vernon, Vermont and Gilford, Vermont.

   Principal highways are Route #5, running North and South; Route #10, running East and West; Route I 91 in Bernardston running North and South in the middle of Town.

3. The population of Bernardston is approximately 1,800. The Town is the site of an Elementary School (200 students).

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Bernardston lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Vermont Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Bernardston lie in Sectors "J", "K", and "L". (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Bernardston Basic Operations Plan as supplemented by this Plan. The Town Hall will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Bernardston Fire of a "CODE YELLOW" message; either through Greenfield Fire (National Attack Warning System), via Tri-State Mutual Aid; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;
4. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,

6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Greenfield Fire over the Tri-State Mutual Aid System.

Back-up and validation messages will be received as follows:

1. State Police to Bernardston Police

2. Franklin County Police to Bernardston Police

3. Massachusetts Civil Defense to local Civil Defense

Red phones and monitors should be used to acknowledge initial alerts.

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Local Police will initiate Signal 100 Major Incident notification procedure.

2. Local Fire will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department
Board of Health

The official notification call list appears as an Attachment to this Annex.

3. Upon establishment of emergency operations at the Town Hall, the local Civil Defense Director or a designee will determine notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Bernardston, to conduct a door-to-door and loudhailer notification. Engine assignments and routes appear as Attachment 1 to this Annex.

2. The local police cruiser PA system will function as back-up to Fire Department vehicles for door-to-door notification.

3. Radio Station WHAI in Greenfield will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans involve the entire Town of Bernardston, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in a southerly direction, it is possible that a recommendation might be made to evacuate only a small part of one Sector (e.g. Sectors J, K, and L). In such cases local officials may choose to direct evacuees in a westerly direction.

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

East	Route #10 to Route 91 South
North	To Route #5, then 91 South
West	Route #5, then 91 South

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

   a. Rte 10 West to Rte I91, South on I91 to Exit 26 (Greenfield Rotary), then follow signs to Greenfield Community College;

   b. Rte 5 South to Rte I91, Rte I91 South to Exit 26 (Greenfield Rotary), then follow signs to Greenfield Community College.

6. The evacuation of the Bernardston Elementary School is the responsibility of the school administration. Students and faculty from the school will be transported by cars and bus to Greenfield.

7. Evacuation of the KOA and Purple Meadow Campground Area is the responsibility of the area's personnel and will be accomplished by private vehicles of those using the Area.

ANNEX C PROTECTIVE RESPONSE — FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

State Radiological Emergency Response Plans provide for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

All water in the Town is drawn from covered wells.

Upon notification to the Town by the State Department of Public Health or Department of Environmental Quality Engineering that any water source is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;

2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of: 1) dairy farms; 2) sources of stored feed; and 3) commercial and large produce farms appear as Attachment A to this Annex.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;

2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;

2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;

3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters;

4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E — EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;

2) Distributing dosimeters during an emergency;

3) Advising Fire, Police and other personnel of exposure guidelines for emergency workers;

4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Town Hall;

2) Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Town Hall, to pick up (1) high level and (1) low level dosimeter;

3) The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;

4) The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Bernardston Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Vermont Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Vermont Yankee Nuclear Power Station the Bernardston Civil Defense Director, or his designee, will contact Radio Station WHAI in Greenfield to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat — DO NOT GO TO THE PLANT — DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

F-2

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT — STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Vermont Nuclear Power Station in Vernon, Vermont. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (Continued)

The Bernardston Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during an emergency period.

2) Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Vermont Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in Greenfield, and elsewhere outside of the Town of Bernardston. (Reception Centers are designated in the Massachusetts Civil Defense

Agency's Area Plan for the Vermont Yankee area.)

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Mercy Ambulance Service will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

TOWN OF COLRAIN

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Colrain with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Colrain is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Colrain Fire (via NAWAS — see Section VI. 6 below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. a. Vermont Yankee is located in the Town of Vernon, Vermont, in Windham County on the West shore of the Connecticut River immediately upstream of the Vernon Hydroelectric Station. The site contains about 125 acres owned by the Vermont Nuclear Power Corporation,

and a narrow strip of land between the Connecticut River and the East boundary of the Vermont Yankee property to which Vermont Yankee has perpetual rights and easements from the New England Power Company. The land is bounded on the North, South, and West by privately-owned land, and on the East by the Connecticut River. Site coordinates are approximately 42°47' north latitude and 72°31' west longitude.

b. The Rowe Yankee Nuclear Power Station is located in the Town of Rowe, Franklin County Massachusetts, on the East bank of the Deerfield River, three quarters of a mile South of the Vermont-Massachusetts border. The coordinates of the reactor vapor container are 42°43'39" north latitude and 72°55'55" west longitude. This area is found on the Rowe Massachusetts-Vermont U.S. Geological Survey topographic map.

The site consists of a total of approximately 2,000 acres straddling the Deerfield River, in the Towns of Rowe and Monroe, Franklin County, Massachusetts.

2. Colrain, located in Northwestern Massachusetts is bordered on the North by the State of Vermont; on the East by Northfield; on the South by Montague, Greenfield and Shelburne; on the Southwest by Charlemont; on the West by Heath; it is approximately 110 miles from Boston and 178 miles from New York.

The network of numbered highways serving Colrain are state routes #2, #10, and #112, Interstate Route #91 and U.S. Route 5. Public roads and highways are adequate to meet the requirements of the community.

The population of Colrain is 1,500. Colrain is a member of the Buckland-Shelburne and Mohawk Trail Regional School districts.

That geographic portion of Colrain which is affected by Vermont Yankee involves approximately 100 people, and there are no farms in that area.

Approximately 100 people and 3 dairy farms fall within the Rowe Yankee evacuation area.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Colrain lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the areas around the Vermont Yankee NPS and the Yankee Rowe NPS have been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Colrain lie in Sectors "E" and "F" re Yankee Rowe, and in Sectors "L" and "M" re Vermont Yankee.

E. Emergency Operations

Emergency operations will be conducted in accordance with the Colrain Basic Operations Plan as supplemented by this Plan. The Fire House will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Colrain Fire of a "CODE YELLOW" message; either through Greenfield Fire (National Attack Warning System), via Tri-State Mutual Aid; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;

2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;

3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;
4. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;
5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,
6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Greenfield Fire over the Tri-State Mutual Aid System.

Back-up and validation messages will be received as follows:

1. State Police to Colrain Police;
2. Franklin County Police to Colrain Police;
3. Massachusetts Civil Defense to local Civil Defense;

Red phones and monitors should be used to acknowledge initial alerts.

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Local Police will initiate Signal 100 Major Incident notification procedure.
2. Local Fire will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
Board of Health

The official notification list appears as an Attachment.

3. Upon establishment of emergency operations at the Town Hall, the local Civil Defense Director or a designee will determine notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Colrain, to conduct a door-to-door and loud-hailer notification. Engine assignments and routes appear as Attachment 1 to this Annex.

2. The local police cruiser PA system will function as back-up to Fire Department vehicles for door-to-door notification.

3. Radio Station WHAI and WHYN and Chennel 3, 40 and 22 will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

4. The Catimount Hill area is a non-supervised recreation area that is used generally on weekends. After completion of the notification of residents, the Fire Department will organize patrols into the Catimount area.

5. In the event of an incident at Rowe Yankee, the following streets and homes could be affected, and the one hundred residents living in this area would travel over North Heath Rd. and Route #112, and then to the designated reception area.

Heath Road	10 homes
Wilson Hill	6 homes and 3 farms 2 dairy farms and 1 beef farm
Hilman Road	1 home
Edward Clark Road	13 homes
Thompson Road	3 homes

Notification of the above residents would be accomplished by Fire Department personnel.

In the event of an incident at Vermont Yankee, in Vernon, VT, the following streets and homes could be affected, and approximately one hundred residents would travel over West Leyden Rd. and Greenfield Rd. and then to the designated reception area.

Green River Rd. #2	3 homes
Green River Rd.	9 homes
Avery Hill Rd.	2 homes
West Leyden Rd.	4 homes
Thompson Rd.	3 homes

Notification of the above residents would be accomplished by Police Department personnel.

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include the Easter 1/8 of the Town of Colrain from the Vernon Plant and the Western 1/8 of the Town from the Rowe Plant, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in a southerly direction, it is possible that a recommendation might be made to evacuate only a small part of one Sector (e.g. Vernon Area, Sector L and M; Rowe Area, Sector E and F). In such cases local officials may choose to direct evacuees in an easterly or westerly direction.

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

Vernon	West Leyden Road at the junction of Shelburne Line Rd.;
	Green River Rd. at Greenfield Town Line.
Rowe	Thompson Rd. at Intersection of Route 112;
	North Heath Rd. at Intersection of Heath Rd.

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

Vernon	West Leyden Road and Greenfield Road to Colrain Road to Greenfield Community College
Rowe	North Heath Rd. and Route 112 to Mohawk Trail Regional High School, Buckland, Mass.

ANNEX C PROTECTIVE RESPONSE — FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Water is supplied by individual covered wells.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions;

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;
2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters.
4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.
2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1. Maintaining adequate inventories of both high and low range personal dosimeters;
2. Distributing dosimeters during an emergency;
3. Advising Fire, Police and other personnel of exposure guidelines for emergency workers;
4. Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1. Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Fire Station;
2. Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Fire Station, to pick up (1) high level and (1) low level dosimeter;
3. The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;
4. The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Colrain Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Vermont Yankee Nuclear Power Station or Rowe.

III. PROCEDURE

Upon notification that there has been an incident at the Rowe or Vermont Yankee Nuclear Power Station, the Colrain Civil Defense Director, or his designee, will contact Radio Station WHAI in Greenfield and issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, VT, or Rowe Yankee Power Station, in Rowe, MA. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat — DO NOT GO TO THE PLANT — DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont and/or Rowe, Mass. Power Station. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT —STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Vermont Nuclear Power Station in Vernon, Vermont and/or Rowe, Mass. Power Station. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Colrain Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1. Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2. Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3. Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Vermont Yankee Nuclear Power Station or Rowe Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in Greenfield or Buckland, and elsewhere outside of the Town of Colrain. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Vermont Yankee NPS area and the Rowe Yankee NPS area.)

C. Emergency Medical Services

Colrain Fire Department will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Vermont Yankee area and Rowe Yankee area.

TOWN OF GILL

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Gill with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Gill is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Gill Fire (via NAWAS — See Section VI.6. below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Vermont Yankee is located in the Town of Vernon, Vermont, in Windham County on the West shore of the Connecticut River immediately upstream of the Vernon Hydroelectric Station. The site contains about 125 acres owned by the Vermont Nuclear Power Corporation, and a narrow strip of

land between the Connecticut River and the East boundary of the Vermont Yankee property to which Vermont Yankee has perpetual rights and easements from the New England Power Company. The land is bounded on the North, South, and West by privately-owned land, and on the East by the Connecticut River. Site coordinates are approximately 42°47' north latitude and 72°31' west longitude.

2. The Town of Gill, the center of which is approximately nine (9) miles S of the Vermont Yankee NPS, could be affected by a major accident at the Vermont Yankee NPS. Further, major accidents at either the Yankee Rowe NPS (approximately 24 miles west of Gill) or at the proposed NPS at Montague could result in recommendations that protective actions be taken in Gill with respect to foodstuffs, especially dairy cattle and milk.

3. Gill is situated on the West Bank of the Connecticut River near the northern border of Massachusetts. It is bordered on the north and east by the Town of Northfield, Massachusetts and on the north and west by the Town of Bernardston, Massachusetts.

   Principal roads in the town are the Main Road and West Gill Road running north and south and Route 2 running east and west.

4. The population of Gill is approximately 2,000. The Town is the site of Mount Hermon South Campus, an elementary school, Living Tree Day Care Center and the Rennaisance Church community. The Town is also the site of the Oak Ridge Golf Course and The Barton Cove Recreational Camping area. The Connecticut River is used for fishing and boating and its bank has a number of private camps.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in **Gill lies** with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;
2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;
3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,
4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;
2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;
3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk,

which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Vermont Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Gill lie in Sector "J" and "K". (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Gill Basic Operations Plan as supplemented by this Plan. The Fire Station will be utilized as the Emergency Operating Center.

IV. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Gill Fire of a "CODE YELLOW" message; either through Greenfield Fire (National Attack Warning System), via Tri-State Mutual Aid; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert Level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;
4. Requesting State and/or Federal assistance, in accordance

with the provisions of the Massachusetss Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,
6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Greenfield Fire over the Tri-State Mutual Aid System.

Back-up and validation messages will be received as follows:

1. State Police to Gill Police
2. Franklin County Police to Gill Police
3. Massachusetts Civil Defense to local Civil Defense

Red phones and monitors should be used to acknowledge initial alerts.

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Local Police will initiate a departmental telephone notification procedure, which will be included as an attachment to this Annex.
2. Local Fire will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department
Mount Hermon School
Gill Elementary School, Rennaisance Church & Living Tree
  Day Care Center
Board of Health
Mercy Ambulance Service
Oak Ridge Golf Course & Barton Cove Recreational Area

The official notification call list appears as an Attachment to this Annex.

3. Upon establishment of emergency operations at the Fire Station, the local Civil Defense Director or a designee will determine and validate notification, and where necesssry assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Gill, to conduct a door-to-door and loudhailer notification. Engine assignments and routes appear as Attachment 1 to this Annex.

2. The local police vehicles PA system will function as backup to Fire Department vehicles for door-to-door notification.

3. Radio Station WHAI and Channel 22 will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

4. The Oak Ridge Golf Course & Barton Cove Recreational Areas will be notified by telephone and are responsible for the evacuation of their patrons by personal vehicles.

5. Notification of people using the Connecticut River for recreation purposes will be accomplished by the Turners Falls Fire Boat under Mutual Aid agreement.

6. Shut in and disabled citizens will receive telephone notification by the Board of Health and arrangements made for their safety.

7. The Rennaisance Church and Living Tree Day Care Center will be notified by telephone and are responsible for the evacuation of their patrons by personal vehicles.

ANNEX B PROTECTIVE RESPONSE —EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation and shelter plans include the entire Town of Gill, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in a southerly direction, it is possible that a recommendation might be made to evacuate only a small part of one Sector (e.g. Sector H, miles 4 and 5). In such cases local officials may choose to direct evacuees in an easterly or westerly direction.

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable. If public sheltering is advisable, the Director may elect to evacuate residents to the reception community shelters.

2. Public warning messages will be selected or formulated and dispersed by the local Civil Defense Director under the direction of the Board of Selectmen, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are included as an attachment to this Annex.

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

    a. Main and West Gill Roads south to Route 2, then West on Route 2 to Route 91 South to Greenfield Community College Reception Center.

    b. Barney Hale Road South to Route 2, then as above to Greenfield.

6. The Gill School Department shall be responsible for evacuation of students and faculty from the Elementary School, if in session. Evacuation will be carried out as indicated in an attachment to this Annex. Students will travel by car and bus to Greenfield Community College. Faculty will chaperone their respective classes until each student has been released to their parents.

7. The evacuation of the Mount Herman, South Campus is the responsibility of Mount Herman's Administration. Students and faculty from the North Campus will be transported by cars and bus to the Greenfield Community College.

8. The evacuation of the Oak Ridge Golf Course and Barton Cove Recreational Area is the responsibility of the area's personnel and will be accomplished by private vehicles of those using the Area.

9. The Rennaisance Church and the Living Tree Day Care Center will be responsible for the evacuation of their patrons using personal vehicles.

ATTACHMENT

ACCESS CONTROL POINTS

1. Junction of Boyle Road and Bernardston Town Line
2. Junction Hoeshop Road and Bernardston Town Line
3. Junction Gill Road and Bernardston Town Line
4. North Cross Road at the junction of Main Road

ANNEX C PROTECTIVE RESPONSE —FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion of cows on contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Upon notification by the Public Health Department, residents will be notified under Annex A of this plan not to drink water from open wells and to make provisions for storing potable water.

Upon notification to the Town by the State Department of Public Health or Department of Environmental Quality Engineering that any reservoir source is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large noncommercial farms;

2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of: 1) dairy farms; 2) sources of stored feed; and 3) commercial and large produce farms appear as Attachment A to this Annex.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;

2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Radiological Defense Officer. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;

2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;

3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters;

4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;

2) Distributing dosimeters during an emergency;

3) Advising Fire, Police and other personnel of exposure guidelines for emergency workers;

4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Fire Station;

2) Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Fire Station to pick up (1) high level and (1) low level dosimeter;

3) The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;

4) The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan. These stations will be located at the Fire Station, Police Station and Mount Hermon School.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Gill Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Vermont Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Vermont Yankee Nuclear Power Station the Gill Civil Defense Director, or his designee, will contact Radio Station WHAI in Greenfield and Channel 22 TV to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat — DO NOT GO TO THE PLANT — DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

F-2

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT — STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Vermont Nuclear Power Station in Vernon, Vermont. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (Continued)

The Gill Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period

2) Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Vermont Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in Greenfield, and elsewhere outside of the Town of Gill (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Vermont Yankee area.)

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Mercy Ambulance Service will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ANNEX H

PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, training and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Vermont Yankee area.

TOWN OF GREENFIELD

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Greenfield with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

III. AUTHORITY

a. The Town of Greenfield is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Greenfield Fire (via NAWAS — see Section VI. below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. Necessary actions to implement the reception from the Town of Bernardston, Charlemont, Gill, Leyden and Northfield will be taken as further described in the annexes. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Vermont Yankee is located in the Town of Vernon, Vermont, in Windham County on the West Shore of the Connecticut River immediately upstream of the Vernon Hydroelectric Station. The site contains about 125 acres owned by the Vermont Nuclear Power Corporation, and a narrow strip of

land between the Connecticut River and the East boundary of the Vermont Yankee property to which Vermont Yankee has perpetual rights and easements from the New England Power Company. The land is bounded on the North, South, and West by privately-owned land, and on the East by the Connecticut River. Site coordinates are approximately 42°47' north latitude and 72°31' west longitude.

2. The Town of Greenfield, a northeasterly segment of which is within 10 miles of the Vermont Yankee NPS, could be affected by a major accident at the Vermont Yankee NPS. Further, major accidents at either the Yankee Rowe NPS (approximately 17 miles northwest of Greenfield) or at the proposed NPS at Montague could result in recommendations that protective actions be taken in Greenfield with respect to foodstuffs, especially dairy cattle and milk.

   Greenfield is situated in central Franklin County, is the county seat, the largest town in the county with a population of just over 18,000, and the center of commerce for Franklin County.

   Principal highways are Routes I 91, 5, 10, running North and South; Route 2 which runs east and west, and Route 2A which bypasses Route 2 and runs through the center of town. Approximately 300 people are residents within a 10 mile radius of the NPS. The Town is the site of Greenfield Community College, a number of public schools, and the Stoneleigh-Burnham Private School. No schools are within a 10 mile radius of any nuclear plant. Two summer camps are within the 10 mile radius of the NPS, Camp Stonehenge for exceptional children off Oak Hill Road and the Boy Scout Camp off Scout Road near Fall River.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Greenfield lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, are prepared to deal effectively with limited disaster or emergency conditions in the community, and to receive evacuees from the affected communities.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to

persons or property in the Towns or which would require the Town to receive evacuees. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter;

5. Provide for the reception and core of persons evacuated due to a radiological emergency.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Vermont Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Greenfield lie in Sectors J and K. (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Greenfield Basic Operations Plan as supplemented by this Plan. The Police Station on Main Street will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan. These responsibilities, and others peculiar to the Radiological Emergency Response Plan are reflected in Exhibit 1,p, "Radiological Emergency Responsibilities and Functions".

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Greenfield Fire of a "CODE YELLOW" message; either through National Attack Warning System, via Tri-State Mutual Aid; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of Reception Centers;
3. Activation of all required emergency response units;
4. Invoking of mutual aid arrangements;
5. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;
6. Assemby and provision of the intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,
7. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and may recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Greenfield Fire over the Tri-State Mutual Aid System.

Back-up and validation messages will be received as follows:

1. State Police to Greenfield Police
2. Greenfield Police to Franklin Police
3. Massachusetts Civil Defense to local Civil Defense

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Greenfield Fire to Greenfield Police
2. Local Police will initiate Signal 100 Major Incident notification procedure.
3. Local Fire will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department
Greenfield Community College
Board of Health
Franklin County Hospital
Farren Memorial Hospital

The official notification call list appears on the Attachment to this Annex.

3. Upon establishment of emergency operations at the Police Station, the local Civil Defense Director or a designee will determine validate notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for the public notification will be a signal sounded from the Brookside Fire Station. In addition, Civil Defense mobile radio teams, dispatched on established routes throughout the area within 10 miles of the NPS will conduct a door-to-door and loud-hailer notification. Specific assignments and routes appear as Attachment 1 to this Annex.

2. A local police cruiser PA system will function as backup to Civil Defense radio vehicles for door-to-door notification.

3. Radio Station WHAI will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

4. A Civil Defense mobile radio team will notify Camp Stonehenge and the Boy Scout Camp.

ATTACHMENT 1 - ROSTER OF KEY OFFICIALS

Greenfield Police Dept.	773-5411
Department of Public Works	772-0166 659-3422 774-4515
American Red Cross	774-4376
Mrs. L. Thompson, Executive Director	772-0983
Red Cross Disaster Chairman	773-7124
Harold Reed	659-3897
Greenfield Superintendent of Schools	774-4384 or 773-8526
William Wright - Home	773-7012
Greenfield Community College	774-3131
Communications:	
Civil Air Patrol Thomas Gavin	773-8566
Charlotte Gordon	772-6010 or 772-6506 (Leave Message)
Greenfield Fire Dept.	774-4321
National Guard Co. "B" (Greenfield)	774-9880
Courtesy CB Brinton Baker	772-0480
Jim Ingram	772-0618
Board of Health -Town Hall John Brickett	772-0291
Franklin County Hospital	772-0211
Farren Memorial Hospital	774-3111
Cooley Dickenson Hospital, Northampton	
Mercy Ambulance Service	772-0826
Camp Stonhenge	773-3093
Boy Scout Camp	

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include only 2 small sections of the Town of Greenfield, it is more likely that protective actions would be recommended for those areas nearest the power station, and not require any protection action in Greenfield.

Also, while plans involve a potential evacuation of all or part of several towns, it is possible that a recommendation might be made to evacuate only a small part of one Sector (e.g. Sector H, miles 4 and 5). In such cases local officials of other towns may choose to direct evacuees in an easterly or westerly direction, and not to Greenfield.

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Controll

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

   (a) Upon receipt of notification of the pending arrival of evacuees, the Greenfield Civil Defense Director will notify the Greenfield Police Chief and the Greenfield Department of Public Works.

   (b) The Police Chief will assign traffic control officers as indicated in Attachment 1.

   (c) The Department of Public Works Superintendent will provide for the placement of the necessary traffic control signs for direction to the registration and housing locations as indicated in Attachment 2.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

East	Route 2 entering Greenfield
North	Routes 5 & 10 entering Greenfield
South	Route 5 & 10 entering Greenfield
West	Route 2 entering Greenfield

No access control is planned for Route I-91.

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health my simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following route:

   Southwest Leyden Road to Nash's Mill Road to Colrain Road to College Drive.

ATTACHMENT 1 - GREENFIELD POLICE DEPT.

I. SITUATION:

(a) To prepare for the orderly reception of evacuees over the highways leading into Greenfield via local streets to the Greenfield Community College Reception Center for registration. After registration if further space is needed besides the College the following locations will be used:

Greenfield High School	-	Total	800
Junior High School	-	Total	800
Four Corners School	-	Total	200

2. ROAD MARKINGS AND SIGNS APPROACHING GREENFIELD AND ROUTES IN TOWN:

(a) Appropriate directional signs with large size lettering will be prepositioned at all near locations to entrances.

ROUTE 91 at Greenfield Bernardston Border and at EXIT 26 and ROUTE 2 ROTARY and 91.

ROUTE 2 at Factory Hollow directing traffice to EXIT 26 at ROUTE 2 ROTARY and 91.

(b) Uniformed police officers will be stationed at the EXIT RAMP off ROUTE 91 at ROUTE 2 ROTARY, and at COLRAIN ROAD on ROUTE 2, guiding traffic to GREENFIELD COMMUNITY COLLEGE parking facilities. If auxiliary space is used routing should be up COLRAIN ROAD to MOHAWK TRAIL up MAIN STREET turn up FEDERAL STREET TO either GRENFIELD HIGH SCHOOL, JUNIOR HIGH SCHOOL or FOUR CORNERS SCHOOL. Highway markers will be necessary on FEDERAL STREET directing traffic to various locations.

3, COORDINATION (HIGHWAY).

Evacuees could arrive in an organized convoy configuration escorted by local police and/or state police.

Evacuees could also arrive in individual vehicles unescorted via routes from an easterly direction. Example: French King Highway, etc. There could be a need for State Police helicopter support. State Police cruisers will be most useful in announcing approximate number of vehicles on route. This will allow for emergency traffic measures and preclude massive traffic tie-ups. Civil Air Patrol may also be utilized for air-ground coordination, also NATIONAL GUARD.

ATTACHMENT 2 - GREENFIELD DEPT. OF PUBLIC WORKS

Traffic control signs will ~~have to~~ be erected to direct evacuee movement to the registration point at the Greenfield Community College. Then, directional signs will ~~have to~~ be installed to further guide evacuees to other reception facilities. Evacuees will arrive via ROUTES 91 and 2. State Police will provide direction and guidance off ROUTE 91 at EXIT 26. Greenfield Police will provide direction from that point for both ROUTE 2 and 91. The Dept. of Public Works will arrange for placement of signs for directional purposes.

D.P.W. Superintendent Peter Mosseau ----------BUSINESS: 772-0166
----------HOME 659-3422

Signs Required and Locations

All signs should be pre-made and stored.

(a) EXIT 26, ROUTE 91 at ROUTE 2 ROTARY
(b) ROUTE 2 at COLRAIN ROAD to COMMUNITY COLLEGE

Evacuation to other Reception Facilities after Registration

Greenfield High School - Approx. 800 People
Junior High School - Approx. 800 People
Four Corners School - Approx. 200 People

Superintendent of Greenfield Schools will be immediately notified as to when evacuees will arrive.

(1) Signs on Federal - Cleveland Street directing people to High School.

(2) If necessary sign on Federal and Beacon Streets directing people to Church Parking Lot.

(3) Sign at Federal and Ferrante Avenue directing people to Four Corners School.

ANNEX C PROTECTIVE RESPONSE --FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Possible actions in the event of contamination of potable water include: 1) Shutdown of flow from Leyden Glen Reservoir, and the use of well water only by Greenfield DPW Water Department. 2) Declaration of water use for essential services only.

Upon notification to the town by the State Department of Public Health or Department of Environmental Quality Engineering that any reservoir source is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;

2. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of: 1) dairy farms; 2) sources of stored feed; and 3) commercial and large produce farms appears at Attachment A to this Annex.

1. Wrights Dairy Farm

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;

2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;

2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;

3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters.

4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;

2) Distributing dosimeters during an emergency;

3) Advising Fire, Police and other personnel of exposure guidelines for emergency workers;

4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Police Station;

2) Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Police Station, to pick up (1) high level and (1) low level dosimeter;

3) The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;

4) The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

   a. A decontamination station will be set up in the Physical Education Facility at Greenfield Community College.

   b. The station will be manned by personnel from the State Civil radiological facility at Ft. Devens.

E-2

IV. **HOSPITALIZATION**

Hospitalization and/or emergency room treatment of evacuees will be managed by the Franklin County Public Hospital and the Farren Memorial Hospital. The American Red Cross will provide for professional medical care at the reception facilities. C. D. emergency hospital, cots and blankets are available.

NEAREST RADIATION TREATMENT FACILITY: Cooley Dickinson Hospital
Northampton, Mass.

ANNEX F PUBLIC INFORFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Greenfield Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurance of an incident at the Vermont Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Vermont Yankee Nuclear Power Station the Greenfield Civil Defense Director, or his designee, will contact Radio Station WHAI in Greenfield and other media to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat - - DO NOT GO TO THE PLANT - - DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat - - THIS IS AN EMERGENCY ALERT - - STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Vermont Nuclear Power Station in Vernon, Vermont. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety - - the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2) Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Vermont Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas and in directing traffic to reception center(s), and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers.

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of nececcary social assistance. See Attachment 1 to this Annex.

C. Emergency Medical Services

The Ambulance Service regularly servicing the Franklin County Hospital and Farren Memorial Hospital will provide emergency medical services, as required, following standard operating procedures. Patients other than those that may be contaminated with radioactive material will be treated at Franklin County Hospital or Farren Memorial Hospital. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to Cooley Dickenson Hospital in Northampton. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ATTACHMENT 1 - THE AMERICAN RED CROSS

Upon receipt of the alert call, the Red Crpss office will verify the call, and then follow these procedures.

NOTIFICATION: The Executive Secretary will call the Division Representative, Assistant Secretary, Chapter Chairman, Disater Chairman, and Chairman of Volunteers. The Assistant Secretary will report to the Red Cross Office to act as a back up for the Executive, the Chairman will call the various organisations responsible for volunteers to assist in their assignments. (See Attachment)

REGISTRATION: Greenfield Community College

MEDICAL CARE: A Red Cross nurse will be stationed at each reception center to administer emergency assistance. A Doctor will be at each registration point.

FEEDING: School personnel will prepare the food, assisted by volunteers. All food purchased for these evacuations must be authorized by Red Cross personnel, and must have a disbursement order.

MOTOR SERVICE: Although most of the evacuees will be arriving by car, and advised to bring medicines, personal supplies, etc., Red Cross will have available a motor corps at each reception center for emergency requests.

COTS & BLANKETS: In the event it is necessary for the evacuees to be housed overnight, the Executive Secretary will notify the Division Representative and cots and blankets will be furnished through regular Red Cross channels.

ATTACHMENT 1 - THE AMERICAN RED CROSS - continued

Sequence of Notification by Red Cross Personnel

Chapter Chairman call shelter managers:

Greenfield High School		Chapter Chairman to be manager
Four Corners	Mrs. Michael Adamoyurka	773-8681 (home) 773-9552 (business)
Greenfield Jr. High	Walter Kostanski	863-8681 (Home) 772-0239 (Business)

Disaster Chairman calls:

Registrars:	Mrs. Winnifred Sweeley	(To call R.C. Volunteers)
Salvation Army	Capt. Robert Goding	773-3154
Canteen:	Mrs. Robert Reid	774-4122
Motor Service:	Charles Purple	773-5511

Chairman of volunteers calls;

Medical Service: Chairman of Volunteers to call R C nurses and Drs.

EMT	Steve Seredynski	773-9538

NOTE; Names & telephone numbers to be reviewed on a yearly basis.

ATTACHMENT 1 - THE AMERICAN RED CROSS - continued

American Red Cross
Franklin County Chapter
29 Mill Street
Greenfield, Mass. 01301
Tel. No. 774-4376

Executive Secretary	Mrs. Louise Thompson	772-0983
Ass't. Secretary	Mrs. Winnifred Sweeley	773-9494
Chapter Chairman	George P. Billings	773-3950
Disaster Chairman	Harold Reed	773-7124
Chairman of Volunteers	Mrs. Ernestine Richardson	774-4275

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Vermont Yankee area.

TOWN OF LEYDEN

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Leyden with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could effect the health and safety of the public.

II. AUTHORITY

a. The Town of Leyden is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Leyden Fire Dept. (via NAWAS) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Vermont Yankee is located in the Town of Vernon, Vermont, in Windham County on the West shore of the Connecticut River immediately upstream of the Vernon Hydroelectric Station. The site contains about 125 acres owned by the Vermont Nuclear Power Corporation, and a narrow strip of land between the

Connecticut River and the East boundary of the Vermont Yankee property to which Vermont Yankee has perpetual rights and easements from the New England Power Company. The land is bounded on the North, South, and West by privately-owned land, and on the East by the Connecticut River. Site coordinates are approximately 42°47' north latitude and 72°31' west longitude.

2. The Town of Leyden, the center of which is approximately seven (7) miles SW of the Vermont Yankee NPS, could be affected by a major accident at the Vermont Yankee NPS. Further, major accidents at either the Yankee Rowe NPS (approximately 17 miles west of Leyden), or at the proposed NPS at Montague could result in recommendations that protective actions be taken in Leyden with respect to foodstuffs, especially dairy cattle and milk.

   Principal highways are Greenfield Road and Brattlebor Road, running North and South; West Leyden Road running East and West between Leyden Center and East Colrain.

3. The population of Leyden is approximately 520. The Town has an elementary school with approximately 55 students. High school students attend Pioneer Valley Regional School in Northfield.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Leyden lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;
2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;
3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,
4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;
2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;
3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,
4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of milk, other foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Vermont Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Leyden lie in Sector "L" and "K". (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Leyden Basic Operations Plan as supplemented by this Plan. The Town Hall will be utilized as the Emergency Operating Center (EOC).

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by **Leyden** Fire of a "CODE YELLOW" message; either through Greenfield Fire (National Attack Warning System), via Tri-State Mutual Aid; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;
4. Requesting State and/or Federal assistance, in accordance

with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,

6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Greenfield Fire over the Tri-State Mutual Aid System.

Back-up and validation messages will be received as follows:

1. State Police to Leyden Police
2. Franklin County Police to Leyden Police
3. Massachusetts Civil Defense to local Civil Defense

B. Notification of Local Officials

1. The local Fire Department will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department
Pioneer Valley Regional School
Board of Health

The official notification list appears as Attachment 1 to this Annex.

2. Upon establishment of emergency operations at the Town Hall, the local Civil Defense Director or a designee will validate notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Leyden, to conduct a door-to-door and loud-hailer notification. Engine assignments and routes appear as Attachment 2 to this Annex.

2. The local police cruiser PA system will function as back-up to Fire Department vehicles for door-to-door notification.

3. Radio Station WHAI will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include the entire Town of Leyden, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in a southerly direction, it is possible that a recommendation might be made to evacuate only a small part of one Sector (e.g. Sector H, miles 4 and 5). In such cases local officials may choose to direct evacuees in an easterly or westerly direction.

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

North	Brattleboro Road at Intersection of Keats Brook Road;
West	West Leyden Road at Green River;
South	Greenfield Road at Greenfield Line.

IV. Evacuation

A. General

Evacuation involves notification to the Public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be via Greenfield Road, south to Leyden Road in Greenfield to Nash's Mill Road to Colrain Road to College Dr.

6. The Leyden School Department shall be responsible for evacuation of students and faculty from the elementary school. School buses will take students to their homes.

7. The Northfield School Department shall be responsible for evacuation of students and faculty from the Pioneer Valley Regional High School, if in session. If time permits, and if it is possible, Leyden students will be brought home. However, if evacuation is carried out immediately, Leyden students will go with other Pioneer Valley Regional High School students. Communication between local Civil Defense Director and the Northfield School Department will determine the route to be taken.

ANNEX C PROTECTIVE RESPONSE -- FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Possible action would be to notify the people of possible contamination of water. Being that all water supplies are private, the use of water cannot be controlled by local officials.

Upon notification to the town by the State Department of Public Health or Department of Environmental Quality Engineering that any source is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;

2. Assisting State authorities, upon request, in disseminating notification of necessary actions;

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of:

1) Dairy Farms
2) Sources of stored feed
3) Commercial and large produce farms

appear as an Attachment to this Annex.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;

2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;

2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;

3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters;

4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;

2) Distributing dosimeters during an emergency;

3) Advising Fire, Police and other personnel of exposure guidelines for emergency workers;

4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Town Hall.

2) Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Town Hall, to pick up (1) high level and (1) low level dosimeter.

3) The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;

4) The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Leyden Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Vermont Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Vermont Yankee Nuclear Power Station, the Leyden Civil Defense Director, or his designee, will contact Radio Station WHAI in Greenfield and Channel 22 TV to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat -- DO NOT GO TO THE PLANT -- DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and Civil Defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT — STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Vermont Nuclear Power Station in Vernon, Vermont. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (Continued)

The Leyden Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2) Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Vermont Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at Reception Centers in Greenfield, and elsewhere outside of the Town of Leyden. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Vermont Yankee Area.)

The Civil Defense Director will coordinate with the American Red Cross and Massachusetts Civil Defense Agency Area IV Headquarters for the delivery of necessary social services assistance.

C. Emergency Medical Services

Police and Fire Department personnel are trained in First Aid and CPR. They will provide medical services until an ambulance arrives on the scene. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Vermont Yankee area.

TOWN OF NORTHFIELD

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Northfield with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Northfield is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials a recommendation from the Commonwealth to Northfield Fire (via NAWAS - see Section VI) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Vermont Yankee is located in the Town of Vernon, Vermont, in Windham County on the West shore of the Connecticut River immediately upstream of the Vernon Hydroelectric

Station. The site contains about 125 acres owned by the Vermont Nuclear Power Corporation, and a narrow strip of land between the Connecticut River and the East boundary of the Vermont Yankee property to which Vermont Yankee has perpetual rights and easements from the New England Power Company. The land is bounded on the North, South, and West by privately-owned land, and on the East by the Connecticut River. Site coordinates are approximately 42°47' north latitude and 72°31' west longitude.

2. The Town of Northfield, the center of which is approximately five (5) miles SSE of the Vermont Yankee NPS, could be affected by a major accident at the Vermont Yankee NPS. Further, major accidents at either the Yankee Rowe NPS, approximately 25 miles west of Northfield, or at the proposed NPS at Montague could result in recommendations that protective actions be taken in Northfield with respect to foodstuffs, especially dairy cattle and milk.

   Northfield is situated on either side of the Connecticut River, on the Northern border of Massachusetts. It is due South of the Towns of Vernon, Vermont and Hinsdale, New Hampshire.

   Principal highways are Route 63, running North and South along the East bank of the Connecticut; Route 10, which crosses the Connecticut, and connects Route 63 with Route I 91 in Bernardston; and Route 142, running North and South along the West bank of the Connecticut.

3. The population of Northfield is approximately 2,500. The Town is the site of the Pioneer Valley Regional School (approximately 600 students) an Elementary School (300 students) and the North campuses of the Mt. Herman School (800 students). The Town is also the site of the Northfield Mountain recreation area, in the Southern part of Town, and of a summer cottage and camping area in the Northeast (Ridge) area. The Connecticut River is used for fishing and boating.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Northfield lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Vermont Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Northfield lie in Sectors "G", "H", and "J". (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Northfield Basic Operations Plan as supplemented by this Plan. The Town Hall will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt of Northfield Fire of a "CODE YELLOW" message; either through Greenfield Fire (National Attack Warning System), via Tri-State Mutual Aid; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;

2. Activation of all required emergency response units;

3. Invoking of mutual aid arrangements;

4. Requesting State and/or Federal assistance, in accordance with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,

6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Greenfield Fire over the Tri-State Mutual Aid System.

Back-up and validation messages will be received as follows:

1. State Police to Northfield Police
2. Franklin County Police to Northfield Police
3. Massachusetts Civil Defense to local Civil Defense

Red phones and tranceivers should be used to acknowledge initial alerts.

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. Local Police will initiate Signal 100 Major Incident notification procedures.
2. Local Fire will notify the following agencies and officials by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department
Mount Hermon School
Peioneer Valley Regional School
Board of Health
Kidder Ambulance Service
Northfield Mountain Area (Northeast Utilities)
Public Health Nurse

The official notification call list appears on the following page.

OFFICIAL NOTIFICATION CALL LIST

AGENCY	NAME	OFFICE	HOME
Civil Defense	David Mroczek	498-2996	498-2881
	Shirley Thompson	498-5557	498-2471
Selectmen	R. K. Leach		498-5994
	Kenneth Miller		498-2749
	Carolyn Parenteau		498-2487
Highway Department	Mike Gibson	498-2100	498-2215
Schools			
Elementary	David Zellmer (Admin. Assist.)	498-2911	617-544-3812 (Warwick)
Mt. Hermon	Dean Lanphear	Day 498-5311	Eve. 498-2701
Pioneer Valley	Everett Masters (Asst. Principal)	498-2911	802-257-1142 (Brattleboro)
Board of Health	Susan Handron		498-2915
	Warren Blakes		498-2840
	Judy Blakes		498-2840
Kidder Ambulance	David Quinn	498-5359	498-5359
Northfield Mountain Area	Les Noyes	Day 659-3761	
	Ron Chevalier	Nights 659-3714	
Northfield Pulbic Health Nurse	Helen Gorzocoski	498-5069	498-5580

3. Upon establishment of emergency operations at the Town Hall, the local Civil Defense Director or a designee will determine notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Northfield, to conduct a door-to-door and loudhailer notification. Engine assignments and routes appear as Attachment 1 to this Annex.

2. The local police cruiser PA system will function as backup to Fire Department vehicles for door-to-door notification. See Routing instructions - A-3.

3. Radio Station WHAI will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

4. Cross country skiers and others using the Northfield Mountain recreation area will be notified by personnel of the recreation area.

5. Notification of people using the Connecticut River for recreational purposes will be accomplished by Northeast Utilities. Specially equipped water crafts with PA systems will disseminate emergency public information.

6. Attached is a list of Northfield residents who would require special care, and attention, i.e.; wheelchair patients and others who are ambulatory but experiencing limited mobility.

Attachment 1

EMERGENCY EVACUATION ROUTE

NORTHFIELD

East Northfield

28-R1: From Post Office on Route 10 and 63 to N.H. state line, Pierson Road, Hamilton Drive, Old Winchester Road, Myrtle Street, North Lane, The Ridge, Birnam Road, North Lane North, Moody Street, Holton Street, Highland Avenue, Glenwood Avenue, Aldrich Street, Pine Street, Gulf Road from Commonwealth Avenue to Erving town line.

West Northfield

ENGINE 2: Northfield Road to Vernon town line, Gerrish Road, Route 142 south to Route 10, River Road, Caldwell Road, Old Route 10, Mount Hermon Station Road, Old Vernon Road, South Mountain.

Northfield Farms

ENGINE 3: Route 63 to Erving town line, Upper Farms Road, Pine Meadow Road, Cross Road, Four Mile Brook Road, Munns Ferry Road, South Mountain Extension, Beers Plain Road from Route 63 to Main Street, Clapp Road, Old Wendell Road, Lyman Road, New Plain Road.

Northfield Center

ENGINE 1: From Mill Street south on 63, School Street, Pentecost Road, Meadow Street, Parker Avenue, Warwick Avenue, Saint Mary Street, Commonwealth Avenue, Maple Street, East Street, Birnam Road from Warwick Avenue to North Lane.

Northfield Fire Station	498-2130
Northfield Mount Hermon Schools	498-5311
Superintendent of Schools	498-2911
Elementary School	498-5842
Pioneer Valley Regional School	498-2931
Emergency Fire Phone	498-5521

NORTHFIELD FIRE DEPARTMENT OFFICERS

CHIEF: Floyd M. Dunnell III	Home 498-2256	Work 498-5334 or 5338
ASST. CHIEF: Ernest H. Lawrence	498-2210	
CAPT.: Dave Quinn	498-5359	
First Lieut.: Marvin Holloway	498-5852	
Second Lieut.: Fred Fuller	498-5818	
Third Lieut.: Dave Quinn, Jr.	498-5583	

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

While notification, evacuation, shelter and reception plans include the entire Town of Northfield, it is more likely that protective actions would be recommended for those areas nearest the power station.

Also, while plans involve a potential evacuation of the entire population in a southerly direction, it is possible that a recommendation might be made to evacuate only a small part of one Sector (e.g. Sector H). In such cases local officials may choose to direct evacuees in an easterly or westerly direction.

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense. See Extended Operations Plan Attachment A to this Annex.

4. Access control points will be established as necessary, depending upon the affected area. Key points are:

East	Warwick Road at Warwick line; Gulf Road at Erving line;
South	Route 62 and Pine Meadow Road at Erving line;
West	Route 10 and Mt. Hermon Road at Gill-Bernardston lines.

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

   a. Rte. 10 west to Rte. 91, south on Rte. 91 to the second Greenfield exit, then follow signs to Greenfield Community College;

   b. Rte. 63 south to Rte. 2, west on Rte. 2 to Greenfield, then follow signs to Greenfield Community College;

6. The Northfield School Department shall be responsible for evacuation of students and faculty from the Pioneer Valley Regional School and Center School, if in session.

   Evacuation will be carried out as follows:

   a. Students and faculty from the Pioneer Valley Regional School will be transported by bus to the Greenfield Community College, along Rte. 10 and south on Interstate 91;

   b. Students and faculty from Center School will be transported by bus to Greenfield Community College.

7. The evacuation of the Mount Hermon, North Campus is the responsibility of Mount Hermon's Administration. Students and faculty from the North Campus will be transported by cars and bus to Greenfield Community College.

8. Evacuation of the Northfield Mountain Recreation Area is the responsibility of the recreation area's personnel and will be accomplished by private vehicles of those using the Area, proceeding south on Rte. 63 and west on Rte. 2.

ANNEX B - Attachment A

EXTENDED OPERATIONS PLAN

If, after the initiation of the evacuation plan, it becomes necessary to provide extended security for the town, it will be accomplished in the following manner. Two shifts will be established; the employers of the concerned individuals will be contacted and any necessary arrangements will be made. (It should be noted that because of their employment, Officers O'Shea and DeMaria will probably have to be exempted from any extended duty situation.) The nature of the emergency will probably allow everyone else to function.

The shifts will be as follows: one officer to be in the E.O.C. as dispatcher; one officer in the cruiser; and one officer in the weapons carrier. If National Guard troops are patroling, one officer will be made available to act as liaison between the department and any patrols that they furnish.

Responsibilities:

Dispatcher: To receive all in-coming phone calls, radio transmission and verbal communications; note them on a log, and initiate such action as necessary to correct or alleviate any dangerous situation. To dispatch a unit when police service is necessary. To maintain an accurate chronicle of all events that transpire and a log of any necessary reports.

Liaison: To assist any outside agency in locating a specific area of concern. To establish lines of communication between the police and any assisting agency. To keep the Chief advised of the needs of the assisting agency.

Patrols: To provide security for those portions of the town that have been evacuated by instituting a prescribed patrol pattern. To enforce all laws to stop and identify any vehicles or persons in his sector and maintain a record of them.

Road Blocks: To control access to the affected areas of town. Personnel assigned to road blocks will not leave their assigned posts until they are relieved. Wherever practical, augmentation personnel will be used to fill this assignment.

If there are extensive power outages and interruption in telephone services, provisions for housing police and fire personnel will have to be made. Possible locations for this would be in the Town Hall, at Pioneer Valley Regional School, or on the campus of Northfield Mount Hermon School. Each of these locations offers the ability to provide messing and open bay sleeping. The bunks and food resources would probably have to be provided by the Office of Civil Defense. Additional shelter facilities could be obtained at the Elementary School in Bernardston.

If the Town Hall has to be evacuated, a secondary E.O.C. would have to be established using the facilities at Crocker's Answering Service in Greenfield.

ANNEX C PROTECTIVE RESPONSE — FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Possible actions in the event of contamination of potable water include: Use of Strowbridge well water; Use of the Northfield Water District; and the use of all artesian wells.

Upon notification to the town by the State Department of Public Health or Department of Environmental Quality Engineering that any reservoir source is unacceptably contaminated, the Civil Defense Director will direct implementation of appropriate action.

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions.

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of: 1) dairy farms; 2) sources of stored feed; and 3) commercial and large produce farms appear as Attachment A to this Annex.

ATTACHMENT A

Board of Health Role Civil Defense

As soon as the civil defense alert has been called and the BOH notified of conditions the following list of local farmers and produce farmers along with the water depts. will be notified by phone — this list will be available to all BOH members and to the civil defense. They will be advised on present conditions and informed to stay in radio contact with local radio stations and also with local TV stations for further update conditions. The local BOH will broadcast information when received from the state health teams. The Northfield BOH members will also be available for any personal questions or directions needed.

Szestowicki ———— 120 cows

horizontal bunkers with plastic covers

water spring closed system

Stan Wicky 498-2113
498-2775

Roberts ———— 100 cows

horizontal bunkers with plastic

both barn and house are open spring fed
498-2404

Powers ———— 60 cows

(2) closed systems silos and bunkers with plastic covering

both house and barn are artesian closed well
Barn 498-5935
498-5592

Fuller ———— 40 cows

(1) closed silo and bunkers with plastic

water in deep well closed

498-5945

Fritz ———— 30 cows

(2) closed silos — hay storage in barn

deep well closed systems

498-2251

Dresser ———— 40 cows

barn storage no open storage

artesian well for both house and barn

498-2082

Whitney ———— 10 cows

horizontal bunkers with plastic covering

closed driven point system to house and barn

PMF Inc. ———— 275 cows

horizontal bunkers with plastic covering

well near barn for part of water supply

Newton 498-2731

Graves 498-5012

Llewelyn ———— 176 cows

(4) vertical sealed silos with some fields of

horizontal bunkers covered with rye plantings

barn water drilled well with wood well house

house water drilled well in cellar

Bill 498-5869

Charles 498-5559

Bruce 498-2621

Shearer ———— 180 cows

horizontal bunkers with plastic covering

bin storage in barn close but not airtight

water is underground with point not deep

but closed system

Tom 498-2092

Robert 498-5989

East Northfield Water Co. 498-5311

Five Acre Farm

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;
2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;
2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;
3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters;
4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.
2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

CERTIFIED RADIOLOGICAL MONITORS

NAME	ADDRESS	TELEPHONE
Carolyn Conway	Beers Plain Road, Northfield	498-5861
Dizaree Conway	Beers Plain Road, Northfield	498-5861
Janet Mroczek	56 Main St., Northfield	773-3838
James B. O'Shea	Mt. Herman Rd., Northfield	498-2877
David A. Miller	Turnpike Rd., Northfield	498-2647
John B. Lawrence	Munns Ferry, Northfield	498-2210
Thomas Holton	Mt. Herman Rd., Northfield	
David G. Quinn, Jr.	Kidder Court, Northfield	498-5538
Floyd M. Dunnell	8 Hamilton Dr., Northfield	498-2256
Timothy Smith	Mt. Herman Rd., Northfield	498-2872
David G. Quinn, Sr.	Parker Ave., Northfield	498-5359
Albert W. Stone	35 Main St., Northfield	498-2125
Dennis Williams	Northfield	498-5961
Edward Davis	Northfield	498-2218
David J. Mroczek	56 Main St., Northfield	498-2881

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1) Maintaining adequate inventories of both high and low range personal dosimeters;

2) Distributing dosimeters during an emergency;

3) Advising Fire, Police and other personnel of exposure guidelines for emergency workers;

4) Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1) Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Town Hall.

2) Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Town Hall, to pick up (1) high level and (1) low level dosimeter.

3) The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings.

4) The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

E-2

LOGISTICS

A. Monitoring Equipment

1. Monitoring equipment is available for issue to personnel committed to a general emergency as a result of an accidental release at Vermont Yankee Nuclear Power Plant.

2. The items listed below are available or will be available at the locations specified.

*	CDV-777-1 Shelter Kit 4 at 56 Main St. 1 at Northfield Fire Station	5 each
**	CDV-777 Operations Monitoring Kit 1 in Northfield Police Cruiser 1 at 56 Main St. 1 at Pioneer Valley Regional School (Chemistry Room)	3 each

*The CDV-777-1 Shelter Kit includes 1 CDV 700 and 1 CDV-715 survey meter; dosimeters, and 1 charger

**The CDV-777 Operations Kit includes 1 CDV-700 and 2 CDV 715 survey meters; dosimeters, and 1 charger

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Northfield Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Vermont Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Vermont Yankee Nuclear Power Station the Northfield Civil Defense Director, or his designee, will contact Radio Station WHAI in Greenfield to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat -- DO NOT GO TO THE PLANT -- DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT — STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Vermont Nuclear Power Station in Vernon, Vermont. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Northfield Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1) Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2) Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3) Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Vermont Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in Greenfield, and elsewhere outside of the Town of Northfield. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Vermont Yankee area.)

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Kidder Ambulance Service will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Vermont Yankee area.

TOWN OF WARWICK

RADIOLOGICAL EMERGENCY RESPONSE PLAN

I. PURPOSE

The purpose of this plan is to provide officials and agencies of the Town of Warwick with a planning basis for carrying out those activities necessary in the event of a nuclear power station (NPS) accident which could affect the health and safety of the public.

II. AUTHORITY

a. The Town of Warwick is governed by Selectmen as provided by pertinent laws of the Commonwealth of Massachusetts.

b. In accordance with Section 13 of Chapter 639, Acts of 1950, as amended, the Selectmen have appointed a local Civil Defense Director. The Board of Selectmen is responsible by law for the health and safety of persons and property, and exercises this authority, during civil defense emergencies, through the local Civil Defense Director.

c. This Radiological Emergency Response Plan has been developed in accordance with local responsibilities of the Town under the Massachusetts Civil Defense Act, Chapter 639, Acts of 1950, as amended, and is consistent with the Massachusetts Comprehensive Emergency Response Plan and relevant attachments on radiological emergencies.

d. Due to the nature and potential magnitude of a radiological incident at a Nuclear Power Station, and the need for quick action on the part of local officials, a recommendation from the Commonwealth to Warwick Fire (via NAWAS — see Section 6 below) or to local Civil Defense shall trigger implementation of protective response measures under this plan. A local State of Emergency shall be considered to exist.

III. PLANNING BASIS

A. Situation

1. Vermont Yankee is located in the Town of Vernon, Vermont, in Windham County on the West shore of the Connecticut River immediately upstream of the Vernon Hydroelectric Station. The site contains about 125 acres owned by the Vermont Nuclear Power Corporation, and a narrow strip of land between the Connecticut River and the East boundary of the Vermont Yankee property to which Vermont Yankee has

perpetual rights and easements from the New England Power Company. The land is bounded on the North, South, and West by privately-owned land, and on the East by the Connecticut River. Site coordinates are approximately 42°47' north latitude and 72°31' west longitude.

2. The Town of Warwick, the center of which is approximately eleven (11) miles SSE of the Vermont Yankee NPS, could be affected by a major accident at the Vermont Yankee NPS. Further, major accidents at either the Yankee Rowe NPS (approximately 30 miles west of Warwick), or at the proposed NPS at Montague could result in recommendations that protective actions be taken in Warwick with respect to foodstuffs, especially dairy cattle and milk.

   Warwick is situated on the Eastern side of the Connecticut River, East of Northfield, on the Northern border of Massachusetts. It is due South of Winchester and Richmond, New Hampshire.

   Principal highways are Route 78, running North and South, and connects Wendell, Northfield, and Athol Roads in the center of town.

3. The population of Warwick is approximately 500. The Town has an Elementary School with 50 students. The Town is also the site of the Mt. Grace recreation area, in the Northern part of Town and the Prison Forestry Camp (Correctional Institute) with approximately 50 inmates. This Camp is not within the 10-mile radius.

B. Assumptions

1. The primary responsibility and capability for immediate response to a radiological emergency in Warwick lies with the emergency forces of the Town. The Board of Selectmen has designated and will support a local Civil Defense Director, and will assure that appropriate support is available to him or her.

2. Local emergency forces have inventoried available resources, and are prepared to deal effectively with limited disaster or emergency conditions in the community.

3. The Town will receive prompt notification of any situation at the NPS which has or threatens to become a danger to persons or property in the Town. Such notification will be made through the mechanisms detailed in the Massachusetts plan for radiological emergencies, and received by the Town as indicated in Annex A, Warning and Notification.

IV. CONCEPT OF OPERATIONS

A. Objectives

This concept of operation is intended to assure that the following objectives are met:

1. Promptly determine the extent and nature of any radiological emergency, and what public protective actions are required;

2. Disperse effective warning to the public as quickly as possible, including authoritative advice on appropriate protective action;

3. Undertake all actions necessary to assure that recommended protective actions are effectively carried out; and,

4. Provide for the essential needs of citizens in the event protective action involves evacuation or shelter.

B. Modes of Exposure

The pathways of radiation exposure to man considered most likely in the event of a nuclear power station accident are:

1. A gaseous plume is of most immediate concern. Individuals immersed by a wind-blown gaseous plume can be exposed externally to direct radiation from particulates and/or gases in the plume, or internally through inhalation of gases and/or particulates;

2. Radioactive liquids can be released involving a threat of direct gamma external exposure from the liquid;

3. Foodstuffs and water could become contaminated either as a result of a plume or liquid release. Generally, this pathway is considered a long-term consequence, with ample time for protective action. Exceptions are a possible need to immediately restrict the consumption of freshly harvested produce which could have become contaminated, and of milk, which may have become contaminated through ingestion by dairy cattle of contaminated pasturage; and,

4. Soil can become contaminated from particulates from a passing plume, or from contaminated liquids.

C. Protective Action

There are several actions that can be taken to protect citizens in the event of an accident involving potentially dangerous radiation releases. The application of a particular action would depend upon a number of factors such as time available to implement the action, its risks, and available resources. For example, in a situation in which a plume is expected to pass over an area before it can be successfully evacuated, the recommended protective action would likely involve taking shelter, as opposed to evacuation.

Recommended protective actions are:

1. Evacuation
2. Shelter
3. Controlling Access to Affected Areas
4. Pasturage and Dairy Animal Feed Control
5. Control of Milk, other Foodstuffs, and Water
6. Administration of Radioprotective Drugs

D. Planning Zones

For planning purposes, the area around the Vermont Yankee NPS has been divided into sixteen (16) radial sectors. Sector "A" has a center-line pointing true North, and sectors are designated alphabetically, in a clockwise direction. Parts of Warwick lie in Sectors "G" and "F". (Neither "I" nor "O" are used as sector designators.)

E. Emergency Operations

Emergency operations will be conducted in accordance with the Warwick Basic Operations Plan as supplemented by this Plan. The Fire Station will be utilized as the Emergency Operating Center.

V. ORGANIZATION AND RESPONSIBILITIES

Responsibilities of various departments and agencies of the Town shall generally be consistent with emergency responsibilities assigned in the Basic Operations Plan.

VI. IMPLEMENTATION

A. Standby Level

Upon receipt by Warwick Fire of a "CODE YELLOW" message; either through Greenfield Fire (National Attack Warning System), via Tri-State Mutual Aid; or via State Civil Defense Area IV (Belchertown), the following actions will be taken immediately:

1. All local officials will be notified in accordance with Annex A — Warning and Notification;
2. Such officials will assure the continued availability of required disaster response personnel for so long as the Standby condition continues;
3. The Emergency Operating Center will be activated, and communications established with the Massachusetts Civil Defense Agency in Belchertown.

B. Alert Level

A particular radiological emergency may or may not involve an Alert level, during which local authorities are expected to begin notification to the public, but before any particular protective action has been recommended. Should local officials be advised that an Alert level has been declared by the Massachusetts Civil Defense Agency, public notification and alerting measures outlined in Annex A — Warning and Notification should be carried out.

C. Emergency Operations Level

Upon receipt of a CODE YELLOW followed by advice from the Massachusetts Civil Defense Agency that protective action has been recommended, Emergency Operations activities will commence immediately.

In addition to those activities covered in the attached Annexes for general action, protective actions, and supporting actions, emergency operations level activities will include:

1. Activation of Emergency Operating Center;
2. Activation of all required emergency response units;
3. Invoking of mutual aid arrangements;
4. Requesting State and/or Federal assistance, in accordance

with the provisions of the Massachusetts Comprehensive Emergency Response Plan, and its radiological emergency supplements;

5. Assembly and provision of intelligence required by the Massachusetts Civil Defense Agency in support of coordinated response throughout the area; and,

6. The taking of all other steps necessary to minimize loss of life, injuries, and damage to property.

ANNEX A WARNING AND NOTIFICATION

I. INTRODUCTION

The warning and notification function involves three (3) phases: 1) receipt of initial warning from the State or the Power Station; 2) notification of involved local officials of a standby, alert or emergency operations condition, and 3) notification of the public of the situation, and any recommended protective action.

II. RESPONSIBILITIES AND PROCEDURES

A. Receipt of initial warning is the responsibility of the Fire Department. Initial warning will come from Greenfield Fire over the Tri-State Mutual Aid System.

Back-up and validation messages will be received as follows:

1. State Police to Warwick Police
2. Franklin County Police to Warwick Police
3. Massachusetts Civil Defense to local Civil Defense

Red phones and monitors should be used to acknowledge initial alerts:

B. Notification of Local Officials

Local Police and Fire Departments will begin a simultaneous notification as follows:

1. The local Fire Department will notify the following agencies by telephone:

Civil Defense
Chairman, Board of Selectmen
Highway Department
School Department
Board of Health
Orange Fire Dept. (Ambulance)
M.C.I. Warwick (Outside 10-mile limit)
D.N.R. Personnel

The official notification list appears **as an Attachment** to this **Annex.**

2. Upon establishment of emergency operations at the Fire Station, the local Civil Defense Director or a designee will determine notification, and where necessary assume responsibility for completion of notification.

C. Public Notification

1. The primary mechanism for public notification will be Fire Department teams, dispatched on established routes throughout Warwick, to conduct a door-to-door and loudhailer notification. Engine assignments and routes appear as Attachment 1 to this Annex.

2. The local police cruiser PA system will function as backup to Fire Department vehicles for door-to-door notification.

3. Radio Station WCAT (Orange) will receive public warning messages from both State Civil Defense and local Civil Defense. Other radio and TV stations received locally will be carrying emergency public information.

4. Cross country skiers and other users of Mt. Grace recreation area will be notified by personnel of the recreation area.

5. M.C.I. Warwick will be notified by Warwick Civil Defense Director.

ANNEX B PROTECTIVE RESPONSE — EVACUATION, SHELTER AND ACCESS CONTROL

I. Introduction

Evacuation, shelter, and control of access to affected areas are the primary protective responses the Massachusetts Department of Public Health will recommend to protect against the direct effects of a gaseous or liquid radiological release.

The recommended action will be based upon Protective Action Guidelines issued by the Environmental Protection Agency, and depend upon a number of variables such as weather conditions, the nature of the radioisotopes released, the anticipated time needed to effect the protective action, and the length of time over which exposure to a given level of radiation is expected to continue.

Shelter, Access Control, and Evacuation Actions are covered separately below.

II. Shelter

A. General

Depending upon time available, citizens may be advised to take shelter in one of two ways: 1) Assemble in public shelters previously designated in the Civil Defense Community Shelter Plan, or 2) Take the best available shelter in homes, schools, offices or plants.

Home basements or interior rooms can provide significant radioiodine exposure reduction for up to two hours.

B. Responsibilities and Procedures

1. Upon notification through the Massachusetts Civil Defense Agency of a Department of Public Health determination that shelter is recommended in a given area, the Local Civil Defense Director should determine what mix of public and private shelter is advisable.

2. Public warning messages will be selected or formulated, and dispersed by the Local Civil Defense Director, in accordance with Annex A.

3. The Local Civil Defense Director will maintain communications with the Massachusetts Civil Defense Agency, Area IV Headquarters in Belchertown, for updated advice on length of shelter period, or further necessary protective actions.

III. Access Control

A. General

Access control is the establishment of barriers by the use of roadblocks or other means to prevent people from entering an affected area.

B. Responsibilities and Procedures

1. The responsibility for determining a need for access control shall lie with the Selectmen, guided by advice from the Massachusetts Department of Public Health, through the Massachusetts Civil Defense Agency.

2. The Civil Defense Director shall coordinate access control actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary access control actions.

3. Responsibility for carrying out access control actions rests primarily with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

4. Access control points will be established as necessary, depending upon the affected area. Key points are: Southern and and Eastern Town borders.

   Mayo's Four Corners to control access from Richmond, N.H. and Athol Road via Tully;

   Town Farm to control access over Hastings Heights and Gale Road;

   Route 78 at Orange Town Line;

   Wendell Road at Junction of Quarry Road (will require 2 or 3 persons).

IV. Evacuation

A. General

Evacuation involves notification to the public (Annex A) living within an affected area to leave their homes, business, or recreation area and report to a registration center. Evacuation may be ordered by the Governor or the Commissioner, Massachusetts Department of Public Health, or Public Health may simply advise evacuation measures.

B. Responsibilities and Procedures

1. The responsibility for acting upon advice from the Massachusetts Department of Public Health to take evacuation measures lies with the Board of Selectmen.

2. The Civil Defense Director shall coordinate evacuation actions on behalf of the Selectmen, provide the Selectmen with all necessary intelligence, and, in their absence, initiate necessary evacuation measures.

3. The procedures for public notification of evacuation shall be performed in accordance with Annex A.

4. The responsibility for traffic control lies with the Police Department, with support from the Highway Department. Additional support will be available through Civil Defense.

5. Evacuation of residents will be by the following routes:

   Easterly and Southerly over roads in affected area to Warwick Center School.

6. Evacuation of the Mt. Grace Recreation Area is the responsibility of the recreation area's personnel and will be accomplished by private vehicles of those using the Area.

ANNEX C PROTECTIVE RESPONSE -- FOOD, WATER, MILK

I. GENERAL

A gaseous radioactive release can result in the contamination of some foodstuffs, and particularly of milk, which can be contaminated by the ingestion by cows of contaminated pasturage. Potable water can be contaminated by either a gaseous or a liquid release. In general, the ingestion pathway to man is a consequence providing reasonably long response time, although it could be necessary to immediately restrict some freshly harvested vegetables and fruits.

II. STATE ACTIONS

The State Radiological Emergency Response Plan provides for the collection, analysis and disposition, when necessary, of contaminated foodstuffs and milk, and the analysis of water. These provisions are made on a statewide basis.

III. LOCAL RESPONSIBILITIES AND PROCEDURES

A. Water

Private Wells (Covered)

B. Milk

The responsibility for supporting State action with respect to milk, dairy cattle, pasturage and stored feed rests with the members of the Board of Health. These responsibilities include:

1. Maintaining inventories of dairy farms and sources of stored feed;
2. Assisting State authorities, upon request, in disseminating notification of necessary actions;

C. Other Foodstuffs

The responsibility for supporting State action with respect to foodstuffs rest with the members of the Board of Health. These responsibilities include:

1. Maintaining awareness of commercial and large non-commercial farms;
2. Assisting State authorities, upon request, in disseminating public information relative to necessary actions.

IV. INVENTORIES

Inventories of: 1) dairy farms; 2) sources of stored feed; and 3) commercial and large produce farms appear as Attachment A to this Annex.

ANNEX D RADIOLOGICAL MONITORING

I. GENERAL

The Massachusetts Department of Public Health maintains both fixed and mobile radiological monitoring capability to supplement and validate monitoring performed by the nuclear power stations. This capability, supplemented by Massachusetts Civil Defense Agency personnel and equipment, is primarily responsible for assessment of the scope and magnitude of any radiological accident. Local radiological monitoring capability will be utilized to:

1. Supplement and validate intelligence available to State authorities;

2. Verify readings of personal dosimeters worn by emergency workers.

II. RESPONSIBILITIES

The responsibility for monitoring radiation levels rests with the Civil Defense Director. This responsibility includes:

1. Maintaining survey meters and dosimeters in proper working order;

2. Arranging appropriate training for personnel of the Town and volunteers in radiation monitoring;

3. Coordinating the activities of radiation monitoring personnel during a radiation emergency, assembling and interpreting data, and providing intelligence to Massachusetts Civil Defense Agency Area IV Headquarters;

4. Supporting, where necessary, monitoring requirements of registration centers.

III. PROCEDURES

1. Upon implementation of this plan, the Civil Defense Director will dispatch monitoring equipment to locations appropriate to the incident. Precedence will be given to traffic control checkpoints, and other areas where emergency workers may be in place for lengthy periods.

2. The Civil Defense Director will maintain logs of monitor activity, and periodically report to Massachusetts Civil Defense Agency, Area IV Headquarters.

ANNEX E EXPOSURE CONTROL

I. GENERAL

Exposure control involves the measurement and recording of personnel radiation exposure by use of radiation detection instruments.

II. RESPONSIBILITIES

Exposure control is the responsibility of the Civil Defense Director, with the support of the Police and Fire Departments. This responsibility includes:

1. Maintaining adequate inventories of both high and low range personal dosimeters;
2. Distributing dosimeters during an emergency;
3. Advising Fire, Police and other personnel of exposure guidelines for emergency workers;
4. Assisting State authorities in the establishment and operation of monitoring and decontamination centers.

III. PROCEDURES

1. Upon implementation of this Plan, the Civil Defense Director will begin distribution of dosimeter equipment at the Fire Station;
2. Chiefs of Services will direct all emergency workers assigned to potentially hazardous areas to the Fire Station to pick up (1) high level and (1) low level dosimeter;
3. The Civil Defense Director will dispatch radiation monitors equipped with survey meters (CD V-700) to validate dosimeter readings;
4. The Civil Defense Director will coordinate the establishment and staffing of monitoring stations and decontamination centers with State Civil Defense. Procedures for operating monitoring stations and decontamination stations will be in accordance with the Massachusetts Radiological Emergency Response Plan.

ANNEX F PUBLIC INFORMATION

I. PURPOSE

The purpose of this Annex is to establish responsibility and procedures for the issuances of public information.

II. RESPONSIBILITY

The Warwick Civil Defense Director, or his designee, is responsible for issuing public announcements relative to the occurrence of an incident at the Vermont Yankee Nuclear Power Station.

III. PROCEDURE

Upon notification that there has been an incident at the Vermont Yankee Nuclear Power Station the Warwick Civil Defense Director, or his designee, will contact Radio Station WCAT in Orange to issue appropriate releases. Such releases should be consistent with information received from Area IV Headquarters, Massachusetts Civil Defense Agency.

The following standard releases have been prepared to facilitate the release of public information during an emergency:

NEWS RELEASE #1

An alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont. This alert has resulted because of an emergency condition at the plant site. No radiation hazard exists and no danger is expected outside the plant boundary. Stay tuned to this radio/TV station for further information. Do not go to the plant area. Repeat -- DO NOT GO TO THE PLANT -- DO NOT CALL. MORE INFORMATION WILL BE FORTHCOMING. PLEASE STAY TUNED.

NEWS RELEASE #2

An emergency alert has been declared by Yankee Atomic for its Vermont Yankee Nuclear Power Station in Vernon, Vermont. There has been a release of radioactive material at the plant site. No danger is expected outside the plant boundary. Do not call or go to the plant area. Local and State public health and civil defense officials will advise if other steps are required. Repeat — THIS IS AN EMERGENCY ALERT -- STAY TUNED FOR INSTRUCTIONS.

NEWS RELEASE #3

An emergency alert has been declared by Yankee Atomic for its Vermont Nuclear Power Station in Vernon, Vermont. If a public hazard develops you will be notified via this radio/TV station and/or civil defense officials and/or police and fire personnel. (If you are asked to evacuate, please do so according to instructions. Move with caution and follow directions.) Do not call or go to the plant area. Do not evacuate unless ordered. Stay tuned for further information.

PROCEDURE (continued)

The Warwick Civil Defense Director will issue further information to the public periodically over radio and TV to keep them advised as to the nature of the incident, potential risk, or absence thereof, and protective actions required, if any.

If an evacuation is required, evacuees should be advised to stay tuned to radio and TV for information relative to re-entry.

ANNEX G SUPPORT SERVICES

I. GENERAL

Support services are those services necessary after primary protective actions have been taken. Those included in this Annex are:

1. Public Safety — the deployment of law enforcement resources for crime prevention and the maintenance of civil order in affected areas during the emergency period.

2. Social Services — the provision of food, shelter, clothing and routine medical services for evacuees.

3. Emergency Medical Services — includes transport of the sick and injured, hospital care, and physician and nursing care.

Generally, these services are necessary in support of a large-scale radiation accident involving a necessity to conduct evacuation. In such circumstances, while the primary responsibility remains with local officials, social services would be provided with the support of the Red Cross and other private relief organizations. Public Safety and Emergency Medical Services will be provided in the context of the Massachusetts Civil Defense Agency's Area Plan for towns in the vicinity of Vermont Yankee Nuclear Power Station.

II. RESPONSIBILITIES AND PROCEDURES

A. Public Safety

The Chief of Police will be primarily responsible for law enforcement activities in evacuated areas, and will undertake appropriate action, upon notification by the Civil Defense Director that evacuation has begun, utilizing existing department procedures.

Support may be available, through mutual aid arrangements or from the State Police, National Guard, or other State resources. Requests for State assistance will be directed to the Civil Defense Director.

B. Social Services

The Red Cross, by Congressional Charter, is responsible for the provision of a range of social services during an emergency. For the most part, following an emergency, these services will be delivered at reception centers in Warwick, and elsewhere outside of the Town of Warwick. (Reception Centers are designated in the Massachusetts Civil Defense Agency's Area Plan for the Vermont Yankee area.)

The Civil Defense Director will coordinate with the Red Cross and State Civil Defense for the delivery of necessary social services assistance.

C. Emergency Medical Services

Orange Fire Ambulance Service will provide emergency medical services, as required, following standard operating procedures. Ambulance personnel will notify to be prepared to accept patients who may be contaminated by radioactive material, and who are enroute to the hospital. The Civil Defense Director will coordinate requests for necessary supplementary emergency medical services with the Massachusetts Civil Defense Agency Area IV Headquarters.

ANNEX H PLAN MAINTENANCE, TRAINING AND EXERCISES

I. GENERAL

The procedures in this Annex involve those aspects of the plan that ensure its continuity and insure that involved personnel are aware of their responsibilities and familiar with necessary procedures.

II. RESPONSIBILITIES

A. Civil Defense Director

The Civil Defense Director has primary responsibility for plan document control, plan updating, and the conduct of all tests and exercises.

B. Other Agencies

Other Agencies and Departments are responsible for initiating necessary plan changes, maintaining the Department's copy of the plan, and participating, as required, in periodic tests and exercises.

III. PROCEDURES

Procedures for plan maintenance, training, and exercises will be consistent with those of the Massachusetts Civil Defense Agency's Radiological Emergency Response Plan for towns in the Vermont Yankee area.